CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* denotes that this work is advertised in Engineering News.)

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RAILWAYS.

ALABAMA CENTRAL.—An extension will be built by this company. It will be about 25 miles long. This railroad is operated by the Manchester Lumber Co. It now runs from Manchester to Jasper, Ala., seven miles. A. Russell is Gen. Mgr., Jasper.

AMERICAN MIDLAND.—This railway will extend from Langdon, S. Dak., to Galveston, Tex., approximately 2,100 miles in length. Surveys will be commenced soon, we are officially informed. As previously noted, the incorporators are Henry Oppenheimer, Meyer Oppenheimer, Charles Sendowsky, Fremont Jerome Hoyle and Lamar Lyndon, all of New York. Under the Oklahoma law there must be three resident incorporators, and these are U. C. Guss, Pres. of the Guthrie National Bank; Carl R. Havighorse, Cashier of the bank, and Benjamin F. Hegler, Jr., a local attorney. In addition to the main line, two branches are provided for, one from Winnsboro, Tex., to Shreveport, La., and the other from Coalgate, Okla., to Poteau, Okla., penetrating the coal and coke regions. The route is southeast through Oklahoma, via Guthrie and Coalgate, to Galveston. Henry Oppenheimer is Pres. and Lamar Lyndon is Engr., 2 Rector St., New York. A. G. C. Bierer, Guthrie, Okla., is local representative. Financial negotiations are under way.

BALTIMORE & PENNSYLVANIA RY. & POWER CO.—A bill has been introduced in the Maryland legislature to incorporate this company to build either a steam or an electric railway from Baltimore via Reisterstown and Hampstead, Md., to Hanover, Pa. Capital, $250,000. The incorporators are William Massenheim, Charles J. Wells, Jesse A. Davis, C. Dickerson Day and Henry N. Foster of Baltimore.

BRITISH-YUKON RY.—Parliament has granted authority to this company to extend its line. This railway is a division of the White Pass & Yukon Route. Noted on Feb. 6.

CANADA.—The Bow River Collieries, Ltd., of Lethbridge, Alta., has applied to Parliament for permission to build a railway about 47 miles in length from the coal mines of the company at Bow River to a point on the main line of the Canadian Pacific Ry. near Cassils, Alta. The incorporators are: Robert F. Reeve, William C. Simmons, W. L. Hamilton, Charles V. Bennet, B. C. Moore, all of Lethbridge, Alta.; and Harry P. Cherry, Winnipeg, Man.

CAPE BRETON.—Company proposes to extend from St. Peters to Louisburg, N. S., 31 miles. Work probably will be started this spring. This railway now runs from St. Peters to Point Tupper, 31 miles. George E. Johnson is Gen. Mgr., St. Peters, N. S.

CHICAGO, CINCINNATI & LOUISVILLE.—On representations made by George A. Fernald & Co., Equitable Bldg., Boston, the Chicago, Cincinnati & Louisville R. R. Co. was placed in the hands of a receiver in the United States Circuit Court on Feb. 13. James P. Goodrich was appointed Receiver. This line is known as the short line between Chicago and Cincinnati, its line between those cities being 286 miles long. It was built about five years ago and maintains a good train service.

COLORADO SOUTHERN, NEW ORLEANS & PACIFIC.—Company has been granted an extension of time to complete the line into Baton Rouge, La. For the past 18 months the stage of water in the Atchafalaya River has been exceedingly high, according to the Houston (Tex.) "Post," and the work of constructing the bridge across the river by the Colorado Southern has been greatly handicapped. The line is completed from De Quincy, La., to the Mississippi River, with the exception of the span across the Atchafalaya River and the trains are being operated over the line from Opelousas west.

CROW'S NEST & NORTHERN.—This company has been incorporated to construct a standard-gage railway from a point on the Crow's Nest line to Michel, B. C., a distance of about 27 miles. H. V. Bodwell, attorney, is reported to have stated that construction will be commenced at once. The incorporators are Russell G. Belden, J. A. Hemphill, C. L. Butterfield, E. A. Wayland, all of Spokane, Wash.

DOMINION ATLANTIC.—Authority has been granted to this company to construct a branch line from a point between Kentville and Canning, N. S., to a point between Berwick and Middleton. The branch will be known as the North Mountain division of the Dominion Atlantic Ry. W. Yould is Engr., Kentville, N. S. Noted Dec. 12.

GEORGIA, ALABAMA & WESTERN.—Construction on this railroad will be commenced this spring by the Kaufman & Shaw Construction Co., Newton, Ga. It will run from Moultrie to Camilla, Newton, Elmodel, Milford and Fort Gaines, Ga.

GILMORE & PITTSBURG.—Surveys have been completed for this railway from Gilmore, Idaho, on the Lemhi Valley northeasterly about 50 miles, through a pass over the Rocky Mountains, in Beaverhead County to Armstead, Mont. The road is a project of the Gilmore Mining Co., of which W. A. McCutcheon, Gilmore, Idaho, is Mgr.

LOUISVILLE & NASHVILLE.—A cut-off will be built from Madison to Goodlettsville, Tenn., twelve miles long. J. H. Peyton is Prin. Locating Engr., Louisville, Ky.

MOBILE, JACKSON & KANSAS CITY.—On Feb. 17 plans for the reorganization of this company were perfected, when George R. Sheldon, A. P. Walker, John W. Simpson, all of New York; John McLeod, of Philadelphia, and Wallace B. Rogers, of Laurel, Miss., were elected Directors, placing the control of the road in the hands of the Metropolitan Trust Co., of New York, which has agreed to finance the railway. The other members of the board are: Brayton Ives, Pres. of the Metropolitan Trust Co., Chn.; L. S. Berg, Pres. of the M., J. & K. C. Ry.; W. D. Stratton, Vice-Pres. of the company, and Alexander McDonald, of Cincinnati. The board controls the Mobile, Jackson & Kansas City Railway, owning 208 miles of road, and

the Gulf & Chicago Railroad, controlling 202 miles. Under the plans for reorganization a new company, called the New Orleans & Chicago Railroad, which will be incorporated in Kentucky, Mississippi, Tennessee or Alabama, will take over all the stock of both the companies. The bonds of the company will be increased from $8,000,000 to $12,000,000, and all the new road that is built will be bonded at the rate of $30,000 a mile, instead of $20,000, as at present. The Metropolitan Trust Co. agreed to finance the new company on condition that it be given the control of the directorate. Plans for the extension of the road have not yet been fully developed, and the money that is obtained from the contemplated bond issue will be used in improving the road. Some action was made necessary by a floating debt of $1,500,000, which was an encumbrance on the development.

NEBRASKA, KANSAS & SOUTHERN.—We are officially advised that contracts probably will be let by this company by April 1 for building this railway. It will extend from Superior, Neb., to Garden City, Kan., 267 miles. Surveys have been made from Garden City to Stockton, Kan., 167 miles. Right-of-way has been obtained for 50 miles. Capital is partly secured. J. C. Hopper is Pres., Ness City, Kan.; F. T. Burnham is Vice-Pres., Dwight Bldg., Kansas City, Mo.; B. L. Brown is Ch. Engr., Laclede Bldg., St. Louis, Mo. Previously noted.

PITTSBURG, BINGHAMTON & EASTERN.—The Public Service Commission, Second District, Albany, N. Y., on Feb. 24, granted the application of the Pittsburg, Binghamton & Eastern Railroad Co. to change that part of its route which lies within the State of New York. This was formerly the Binghamton & Southern, which was originally organized by former Senator George E. Green and others. It was afterward merged and the Pittsburg, Binghamton & Eastern, and the new line is to provide an additional outlet from the Pennsylvania coal fields and eastern markets. It was found that the original route was impracticable. The application was opposed by the Erie R. R. Co. on the ground that the change of route involved an entirely new proposition and application should be made for a certificate of necessity, rather than permission to change; also on the ground that the company was not properly merged. Noted on Jan. 23.

SOUTH & WESTERN.—A meeting of shareholders of the South & Western of Tennessee has been called for March 23 to act on the sale of the property and franchises to the South & Western of Virginia.

WASHINGTON.—A. E. Baldwin and Charles J. Webb, of Kettle Falls, Wash., have filed a petition with the Stevens County Commissioners for a franchise over the public highways of Stevens County, Wash., for the purpose of building a railway from Kettle Falls to the mouth of the Spokane River. The new road will traverse the Columbia River valley and will be about 45 miles in length.

ELECTRIC RAILWAYS.

BOSTON, MASS.—Representatives of the Hogton & Northern Street Ry. Co. have informed the Metropolitan Park Commission that the company does not intend to build the proposed line from Stoneham down into Middlesex Fells Reservation as far as Spot Pond before the end of two years, although it desires to have the location granted. The need of retrenchment is the reason. H. E. Reynolds is Asst. Gen. Mgr., 84 State St., Boston.

ROCHESTER, N. Y.—A hearing will be given by the Highway Commissioners of Genesee County at Stafford on the application of the Rochester, Scottsville & Caledonia Electric R. R. Co. D. C. Salyerds, of Rochester, is Pres. The company plans to build a line from Rochester to Le Roy and extend it to Batavia, building on a private right-of-way. As previously noted, we were officially advised that surveys are made for this line from Rochester to Portage Falls, via Scottsville, Le Roy and Perry, N. Y., a distance of 56 miles. Capital and right-of-way are not yet secured. Le Grand Brown is Ch. Engr., 16 State St., Rochester, N. Y.

BOONTON, N. J.—The Common Council has granted an extension of time to the Morris County Traction Co. for the completion of its line in Boonton, until July 1, 1908. F. H. Alleman, Summit, N. J., is Mgr.

BROWNSVILLE, PA.—The West Pennsylvania Rys. Co., it is announced, will soon start the construction of the last link connecting Connellsville, Pa., with Brownsville. It will be about five miles in length, and will commence at Republic, ending here, where connection will ultimately be made with a line running into Pittsburg. On this section of the road, there will be three long steel viaducts and two large reinforced concrete bridges to construct, contracts for which have not been placed. The construction work will all be done by the company under the supervision of the chief engineer. There will be a cut through solid rock on the line, from which about 30,000 cu. yds. of material will be removed. J. L. Fritsch, Connellsville, is Ch. Engr.

WASHINGTON, D. C.—A bill providing for an extension of the Capitol Traction Co.'s line from its present terminus at Fifth St. and Nichols Ave., Congress Heights, along the avenue and the Livingstone road to Shepherds Landing, has been submitted by the Commissioners to Representative Samuel W. Smith, Chn. of Com. on the District of Columbia, with a request for enactment.

ONANCOCK, VA.—The Accomac Power & Traction Co. is preparing plans for its proposed railway for passenger and freight service, which will serve the towns of Onancock, Tasley, Accomac, Tompkins Bay and Battle Point, Va., a total distance of 8½ miles. The bracket and cross-suspension type of overhead construction will be used. No contracts have been let. Surveys are completed. Grading will commence this spring. James D. Lalor is Ch. Engr., 1330 Arch St., Philadelphia, Pa. Previously noted.

JESUP, GA.—The Goose Creek Railway & Power Mfg. Co. has applied for a charter and proposes to build electric railways and other enterprises. Capital, $500,000. The incorporators are W. H. Whaley, Pres. of the Merchants and Farmers' Bank; F. E. Breen, Secy. and Treas. of the Alabama Navigation Co.; S. E. Cohen, J. H. Wilkins, J. F. Breen, W. M. Robinson, J. T. Winn, A. L. Kicklighter, E. Crumney and D. M. Clarke, all of Jesup, Ga., and D. G. Zeigler of Columbia, S. C. Construction is to begin in 30 days.

GAINESVILLE, GA.—The Atlanta, Norcross & Gainesville Electric Ry. Co., which proposes to build an electric railway from Atlanta to Gainesville, Ga., 50 miles, via Chamblee, Doranville, Duluth, Suwanee and Buford, has completed surveys from Atlanta to Norcross, 18 miles. Company has applied for a charter, as noted on Jan. 16. E. Philbrick is Ch. Engr., Baldwin, Ga.

MOBILE, ALA.—C. A. Elkins is interested in project to build an electric railway from Citronelle to Mobile, Ala., 30 miles. He has secured a franchise for the operation of the line through Citronelle. A franchise will be sought in Mobile for building the line from One-Mile Creek to Three-Mile Creek. The County Commissioners will be asked for right-of-way over the county road.

NELSONVILLE, OHIO.—The Nelsonville, Athens & Glouster Traction Co. has been organized for the purpose of promoting the construction of an electric railway from Nelsonville through Buchtel, Orbiston, Murray, Trimble, Jacksonville and Chauncey to Athens, and from Chauncey to Nelsonville. The company has secured franchises in all the towns along the route, and has secured franchises also from the Commissioners of both Hocking and Athens Counties. L. F. Carpenter is Pres.; Charles Tutt, Gen. Mgr.; C. W. Juniper, Secy., Nelsonville. Capital, $10,000.

FRANKFORT, IND.—W. H. Cohee, Vice-Pres. and Gen. Mgr. of the Frankfort, Delphi & Northern Traction Co., Frankfort, advises us that contracts probably will be let this summer for building the 27-mile section between Frankfort and Delphi, Ind. Right-of-way and capital are secured and surveys made. Abe S. Strauss is Pres., Chicago, Ill.; J. Brown is Ch. Engr., Frankfort. As noted on Jan. 2, this company was incorporated in January, 1907. The road will be built from Frankfort, Ind., to Chicago, Ill., by way of Delphi, Monticello, Monon and Hammond, connecting at Frankfort with the Indianapolis & Northern Traction Co.

SCOTTSBURG, IND.—The Cincinnati, Madison & Western Traction Co. has filed articles of incorporation with the Secretary of the State. Capital stock, $10,000. The company proposes to construct, maintain and operate an interurban electric railway from Scottsburg through Scott and Jefferson Counties to Madison, and thence through Switzerland, Ripley, Ohio and Dearborn Counties to the Ohio and Indiana State line, and thence through Hamilton County, Ohio, to Cincinnati; also branch lines from Scottsburg to Jeffersonville, in Clark County, and the city of New Albany, in Floyd County, and thence into Louisville, Ky.; also from Scottsburg through Washington and Orange Counties, connecting Salem, Paoli, West Baden and French Lick, and thence through Lawrence County to Bedford. John E. Greeley, Louisville; Samuel D. Miller, George B. Gaston and George N. Owen, directors.

FRANKFORT, IND.—On Feb. 3, at a meeting held at Frankfort, the Kokomo, Frankfort & Terre Haute Traction Co. was organized for the purpose of constructing an interurban railway in Indiana. Articles of incorporation will be filed at once. The work of obtaining right-of-way and franchises will be started immediately. Capital stock, $3,000,000. Officers were elected as follows: Pres., Dr. Oliver Gard, Frankfort; First Vice-Pres., J. C. De Weese, Kokomo; Second Vice-Pres., D. W. Bolen, Indianapolis; Secy., E. B. Swift, Kokomo; Treas., M. W. Elkenberry, Kokomo; Gen. Counsel, Judge J. V. Kent, Frankfort. W. H. Elkenberry, Russiaville; Albert E. Betts, Frankfort, and Adam Ridenhour, Forest, are also interested.

SIOUX CITY, IOWA.—We are officially advised that the Sioux City & Spirit Lake Ry. Co. will let contracts soon. Capital has been promised. Right-of-way is partly secured. The line will run from Sioux City to Hartley and Spirit Lake, Iowa, 80 miles. Frank Patch is Pres., Hartley, Iowa. Surveys have been made. The incorporators are: D. A. Fletcher, George Coleman, Frank Patch, J. F. Conn and G. E. Kuaack, of Hartley. Capital stock, $50,000. Gasoline or electricity will be used for motive power. J. C. Wakefield, Hartley, is Ch. Engr.

DES MOINES, IOWA.—We are officially advised that the Des Moines & Sioux City Ry. Co. effected preliminary organization on Feb. 18. The following officers were elected: Pres., S. N. Elwood, Sac City; Vice-Pres., M. H. Miller, Fort Dodge; Secy., A. O. Anderson, Lake City; Treas., E. M. Bailey, Sac City. Organization is not sufficiently advanced to let contracts for the engineering work. Preliminary plans are under way. The headquarters of the company will be at Lake City, Iowa. The new railway will connect Des Moines, Sac City, Storm Lake and Lake City, Iowa.

MUSKOGEE, OKLA.—The Muskogee Electric Traction Co. will let contracts at once for building 2½ miles of track. R. D. Long is Gen. Mgr., Muskogee. R. D. Benson, Vice-Pres., 11 Broadway, New York.

PARIS, ARK.—The Paris & Subiaco Traction Co. has been incorporated in Arkansas to build a 5-mile electric line from Paris to a point at or near Subiaco, Logan County, where the monastery and college of the Benedictine Order is located. Capital stock, $60,000. Incorporators: D. J. Young, of Fort Smith, Ark.; Conrad Elsken, G. G. Dandridge, Henry Stroup, of Paris, and Charles J. Jewett.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

ORANGE, MASS.—Arrangements are being made by the Rodney Hunt Machine Co., 70 Kerby St., Orange, for building a concrete dam at the Partridgeville mill privilege recently purchased by the company. The dam, when completed, will furnish power to generate electricity for the operation and lighting of the plant of the Rodney Hunt Machine Co., and to other concerns. Elbridge N. Harris is Pres.

FRANKLIN, N. Y.—The Delaware & Otsego Light & Power Co. contemplates extending its transmission lines to neighboring towns to furnish electricity for lamps as soon as its dam and power-house are complete. E. A. Markey is Pres.

JOHNSTOWN, PA.—The Cambria Steel Co., Arcade Bldg., Philadelphia, Pa., will let contracts soon for equipment to be used at the Rolling Mill Mine and the Millcreek power plant. The improvements will cost about $50,000, and will consist of two new batteries of boilers, a high-pressure compressed air plant, four compressed air locomotives, a low-pressure air compressor, compound steam engine and a dynamo for the electric light plant, additional cutters, drills, etc., for the mining equipment of the plant. Powell Stackhouse is Pres.

JESUP, GA.—The Goose Creek Railway & Power Mfg. Co. will be incorporated with capital stock of $250,000 and privilege of increase to $500,000. It plans to build electric plant for transmitting 3,000 HP., a cotton mill, cottonseed-mill and storage warehouse. W. H. Whaley, F. E. Breen, S. E. Cohen, J. H. Wilkins and others are interested. D. G. Zeigler of Columbia, S. C., is Arch.-Engr. No machinery or materials have been purchased. Construction is to begin within 30 days.

MACON, GA.—The Macon Railway & Light Co. has awarded contract for a 2,000-HP. steam turbine to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., for $58,000. J. M. McFarland is Supt.

JACKSONVILLE, FLA.—Bids are asked by the trustees for the Water-Works and Improvement Bonds of the city of Jacksonville until March 4, for the purchase of one Hamilton Corliss tandem compound engine, one General Electric 250-KW., 2,300-volt, belted monocyclic generator with exciter. The machinery is now in use, but will be ready for delivery about April 1. R. N. Ellis is Supt.

MAYFIELD, KY.—The Mayfield Water & Light Co., Mayfield, is arranging to rebuild its electric lighting system and will lay about six miles of c.-i. water mains.

FAIRMOUNT, OHIO.—The Lunkenheimer Co., of Fairmount, will build a power plant which will double its present boiler capacity. The plant will be erected at the corner of Beekman and Tremont Sts., and will be 50 × 81 ft.

COLUMBUS, OHIO.—David L. Parsons is preparing plans for an electric light plant to be equipped with engines, boilers, pumps, heaters, dynamos, 100 to 300-KW., 3-phase machines, or 100 to 150-KW. direct-connected direct, 500-volt machines, transformers, switchboards and appurtenances, apparatus for general machine and repair shop work, etc.

ELKHART, IND.—The School Board is in the market for electrical equipment, fixtures, etc., for the Central School building now about completed.

PORTLAND, MICH.—It is stated that the Commonwealth Power Co., Jackson, Mich., intends to build a dam at Portland. Work probably will be started in the spring. J. B. Foote, Jackson, is Gen. Supt.

CHICAGO, ILL.—The Commonwealth Electric Co. contemplates constructing a 3-story power-house at 2438 25th St., it is stated. Estimated cost, $100,000. W. A. Fox is Secy. and Treas.

The City Council has decided to extend the street lighting system and will install 5,500 additional street lamps. Electrical energy for supplying the additional lamps will be secured from the Sanitary District of Chicago. William Carroll is City Electrician.

CASHTON, WIS.—The voters of this village have decided favorably upon the proposition to establish a municipal lighting plant to cost $15,000. A bond issue will be passed and work commenced this spring.

ASHLAND, WIS.—The Ashland Power & Street Ry. Co., T. Burdon, Pres., contemplates constructing a hydro-electric plant at Copper Falls, near Ashland. About 3,000 HP. is available. No dam will be constructed. The power will be taken from natural falls.

GREEN BAY, WIS.—Bids are asked by Elmer S. Hall, County Clerk, until 10 a. m., March 16, for the erection and completion of a power-house for Brown County. Foeller & Schober, Paul Fox Block, are Archs.

DES MOINES, IOWA.—The Des Moines City Railway Co. contemplates enlarging its power-house and adding 1,500 HP., making the maximum output of the station 6,500 HP. The improvements probably will be made this spring. G. B. Hippee, Des Moines, is Mgr.

HUBBARD, MINN.—Knute Aaker of Hubbard and Elias Steenerson, Postmaster of Crookston, are interested in a company which proposes constructing a dam on Red River, near Hubbard, and constructing a power plant. In connection with the plant, it is reported that it is also proposed to construct an electric railroad between Fargo, Crookston and Grand Forks, and in time to be extended to Duluth and St. Paul and Minneapolis. George A. Ralph is Engr. State Drainage Bd.

EVELETH, MINN.—A committee has been appointed by the City Council of Eveleth to investigate and report upon the advisability of installing an electric light plant. No definite plans have been developed.

DULUTH, MINN.—H. J. ... has secured the contract ... H. of Duluth, generators and ventilati... all engines, Board of Trade Bldg., Du... tem in the ... at $7,000.

NORTH PLATTE, NEB.—... Electric Light & Power ... North Platte making improvements to ... contemplates of which is estimated a ... the cost Walker is Treas. and Mg... L. W.

LINCOLN, NEB.—The ... CO., of Fort Wayne, Ind. ... TERN GAS a contract to erect a w... been awarded Lincoln. ... plant is

HARLOWTON, MONT.—... Light & Water Co., ... Harlowton ated, contemplates the ... incorporation water and light system ... of a $30,000. L. D. Glenn is S... of about

AMARILLO, TEX.—The ... Co. will install an electri... St. Ry. plant, it is reported, and ... and power considerable equipment. H. A... quire con- is Pres.

CLARENDON, TEX.—Im... $10,000 are being planned ... is to cost Water, Light & Power C... Clarendon is Mgr. ... S. Kemp,

LEAVENWORTH, WASH.—... GERRICK, contractors, ... RICK & about March 1 on the electri... art work nish electric power for tra... to fur- Northern Ry. Co. over the ... the Great Leavenworth to Skykomish ... 1,000 ft of steel pipe, 9½ ft. in di... running across the Wenatchee River ... attaching to a steel tank which will stand ... ft. high and hold about 1,000,000 ... of water will carry the water for the ... which will create power. Four ... will be built by the GENERAL ELECTRIC CO., Schenectady, N. Y., each having capacity of 1,300 HP. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

BREMERTON, WASH.—Bids are asked until 11 a. m., March 28, by R. C. Holliday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing two boilers, flue connections and steel stack at the navy yard, Bremerton, Wash. Specifications are on file at the office of Engineering News, New York.

PORTLAND, ORE.—H. M. Pabst, Gen. Mgr. of the Portland Gas Co., has announced that the company will erect a $30,000 plant within 90 days to remove all sulphur from the gas furnished the public.

PRINEVILLE, ORE.—H. V. Gates, of Hillsboro, Ore., Pres. of the Prineville Light & Water Co., intends to construct a power plant at Lava Falls, work on which is to be begun in the spring. It is to cost $150,000.

REDDING, CAL.—The Board of Trustees has awarded the contract for city lighting for the ensuing year to the NORTHERN CALIFORNIA POWER CO. for $208.05 a month. The contract calls for 23 arc lamps on the streets, a number of lamps for alleys and the lamps in the city hall. The new contract takes effect within 60 days. E. V. D. Johnson, Redding, is Mgr.

OGDEN, UTAH.—Plans for the erection of a power plant at Devil's Gate, in Weber Canyon, have been completed and officials of the Utah Light & Railway Co. announce that work will be begun early in the spring. The plant will cost $350,000. Power lines will be run from the plant to Ogden and on to Salt Lake City. Joseph S. Wells is Mgr., Salt Lake City, Utah. Noted on Jan. 23.

PORT ARTHUR, ONT.—Cecil B. Smith has completed the survey of the Dog Lake Falls for the proposed power development for this town. The transmission line will be 23½ miles in length.

WINDSOR, ONT.—Stephen Lusted, City Clerk, writes us that a by-law granting a natural gas franchise to Henry D. Symmes, of Niagara Falls, Ont., has been passed. No steps have yet been taken towards laying the pipes nor have contracts been let. The by-law stipulates that 15 miles of pipe between the gas fields and this city and five miles of pipe within the city limits must be laid by Feb. 1, 1909.

VANCOUVER, B. C., CAN.—The British Canadian Wood, Pulp & Paper Co. has received a grant of water rights on Rainy River, opposite Gambier Island, and will at once proceed with the installation of a plant to develop 5,000 HP. W. H. R. Collister, 313 Cordova St., Vancouver, is interested.

SINALOA, MEX.—The Kansas City, Mexico & Orient Ry. Co. of Texas plans building a hydro-electric power plant to develop 5,000 or 6,000 HP. on the Fuerte River in Sinaloa, to be used in the construction of the railroad through the most difficult part of the Sierra Madre, going east from Topolobampo Bay, and also to sell to mines in that region, which include the famous Eluvia de Oro and many others operating on a large scale. The company has acquired what is known as the O'Gorman concession for this plant. A. M. Nelson, Engr. and Supt. of Const. in Mexico, is making necessary surveys. The location is just west of the Chihuahua line.

It is expected that 10,000 HP. can be developed if needed. N. J. O'Brien is Gen. Mgr., Stillwater, Tex.

BRIDGES.

FITCHBURG, MASS.—Bids are asked until March 3 by the city for the construction of a granite arch and reinforced concrete arch bridge in Depot St., the structure to be one span of 70 ft. and 50 ft. wide. David A. Hartwell is City Engr.

HARRISBURG, PA.—The contract for the construction of the concrete bridge in Franklin Township, Greene County, has been awarded by Joseph A. Hunter, State Highway Comr., to REITSCH BROS., Washington, Pa.

BALTIMORE, MD.—The Board of Awards has awarded contract to BALTIMORE FERRO-CONCRETE CO., Glenn Bldg., 16 St. Paul St., for the construction of con-

crete bridge on Edmondson Ave. over Gwynn's Falls, at $179,516. The structure will be 60 ft. wide, 547 ft. long with four arches, rock foundations, monolithic in construction and reinforced concrete roadway. B. T. Fendall is City Engr.

LYNCHBURG, VA.—Bids will be asked about March 1 for the construction of a concrete viaduct on D St., estimated to cost about $30,000. H. L. Shaner is City Engr.

CARTERTON, VA.—We are officially advised that the contract for the construction of a 6-span steel bridge, on stone or concrete foundations, near Carterton, was awarded on Feb. 8 by the Board of County Commissioners to the ROANOKE BRIDGE CO., Roanoke, Va., at $7,939. Silas B. F. Counts is Secy. Comrs.

ATTALLA, ALA.—The CONVERSE BRIDGE CO., Chattanooga, Tenn., has been awarded the contract for constructing the bridge at Big Wills Creek, near Attalla, at $4,988. The structure will be of steel, with concrete abutments, piers, 16 ft. wide, main span 100 ft. long and smaller span 45 ft. long.

BIRMINGHAM, ALA.—Bids are asked until March 10 by the Clerk of Board of Revenue for furnishing material and constructing eight steel or reinforced concrete highway bridges. P. S. Milner is County Engr.

HOLLY SPRINGS, MISS.—Bids are asked by the Supervisors of Marshall County until March 3 for constructing a pile bridge 200 ft. long across Tippah River. C. H. Wright, Clk.

NOTTINGHAM, OHIO.—Bids are asked by the County Comrs. until March 14, for the construction of the superstructure of a reinforced concrete arch bridge here. Estimated cost, $12,708. W. F. Black is Clk. Comrs., Cleveland, Ohio. A. M. Felgate is Design. Engr., Cleveland.

DAYTON, OHIO.—J. B. STANSELL & SON were awarded the contract by the County Commissioners on Feb. 6 for the construction of the substructure of bridge No. 113 in Jefferson Township at $4.95 per cu. yd. for concrete.

BROOKVILLE, IND.—Bids are asked until 1 p. m., March 14, by Charles A. Miller, County Audr., for the construction of various arches and bridges in Franklin County.

INDIANAPOLIS, IND.—The Board of Public Works has awarded the contract to the INDIANA BRIDGE CO., for repairing the Virginia Ave. viaduct at $5,900. Blaine H. Miller is City Engr.

CENTERTON, IND.—The County Commissioners have awarded the contract to GILBERT & FERGUSON for the construction of a 3-arch concrete bridge over White Lick Creek at $9,774.

BLUFFTON, IND.—The county will have a 30-ft. bridge erected over Big Black Creek ditch in Jackson Township. Ora Garrett is County Audr.

*BENTON HARBOR, MICH.—Bids are asked until 2 p. m., March 19, by the Joint Bridge Committee of the cities of Benton Harbor and St. Joseph for the construction of a steel bridge over the St. Joseph River, consisting of a swing or bascule channel and two approach spans and concrete substructure for same. Bridge to be 312 ft. long, roadway 32 ft., paved with creosoted wooden blocks and two 7-ft. sidewalks. J. W. Pearl is Engr. Com.

EAST ST. LOUIS, ILL.—The East St. Louis & Suburban Ry. Co. will have a bridge constructed over high ground on the east side. The bridge is to be 40 ft. wide.

CHICAGO, ILL.—Plans have been prepared by Thomas G. Pihlfeldt, City Bridge Engr., for the construction of a reinforced concrete bridge over the Illinois and Michigan Canal at Western Ave. Estimated cost, $20,000. Bids will probably be asked in April.

SUPERIOR, WIS.—The St. Louis River bridge bill, granting the United States Steel Corporation the right to build a bridge connecting Superior and Duluth, passed the Senate on Feb. 13, with the following amendment: "Said bridge shall be constructed with two through decks, one of which shall provide for the passage of wagons and vehicles, for all kinds of street railway and motor cars and road travel, and one of which shall also have two passageways, one on either side, for the exclusive use of pedestrians, each passageway to be not less than 3½ ft. in width and to be separated from the roadway or railway on said deck by suitable guard railings, and all parts of said bridge shall forever be maintained in acceptable and serviceable condition and the use thereof shall forever be free and without toll or compensation for all pedestrians and vehicles, but not free for steam or electric railroad cars and locomotives or street cars."

MILWAUKEE, WIS.—The contract for the testing of all cement used in the concrete work for the new Grand Ave. viaduct was awarded on Feb. 5 by the joint committee of the County Board on Highways and Bridges and Laws and Legislation, to the AMERICAN BUREAU OF INSPECTION & TESTS, Monadnock Bldg., Chicago, Ill., according to the Milwaukee Sentinel. Under the condition of the contract the firm will have an expert continuously stationed at the viaduct to make the tests for which work the county is to pay at a rate of $150 a month. About 450,000 bbls. of cement will be used. The contract for inspecting all the iron to be used in the structure was awarded to the PITTSBURG TESTING LABORATORY, Ltd., 325 Water St., Pittsburg, Pa. The cost of this inspection will amount to about $500. ROBERT SEEFELD secured the contract for making the test borings at 50 cts. a ft.

MILWAUKEE, WIS.—Bids are asked by the Board Public Works until 10:30 a. m., March 17, for constructing a bascule bridge across the Kinnickinnic River on Kinnickinnic Ave. Peter J. Koehler is Deputy Comptroller.

WATERLOO, IOWA.—We are officially advised that bids were received as follows on Feb. 19, for (a) the construction of a steel and concrete arch bridge over Cedar River and for re-erecting steel truss across Cedar River at Eleventh St.; (b) for concrete and steel arch bridge across Virden Creek. C. T. Wilson is City Engr. Contract (a) consists of eight 76-ft. arches, 56 ft. wide, and five 152-ft. trusses, of which four are to be re-erected. Contract (b) is for one 60-ft. arch, 52 ft. wide. BARTLETT & KLING, Cedar Rapids, Iowa, (a) $100,425; (b) $9,000. (Awarded both contracts.) G. F. Scales, Waterloo, Iowa, (a) $113,750. Cedar Rapids Construction Co., Cedar Rapids, Iowa, (a) $157,450; (b) $12,498. Elzy & White, Marshalltown, Iowa, (a) $137,332. R. A. Elzy, Marshalltown, Iowa, (b) $12,727. Union Engineering & Construction Co., Chicago, (b) $16,500. Chapman & Shifferdecker, Waterloo, Iowa, (b) $9,381.

REDWOOD FALLS, MINN.—Bids are asked by L. P. Larson, County Audr., until March 25 for constructing a 220-ft. bridge across the Minnesota River.

TOPEKA, KAN.—The contract for the construction of the Branner St. viaduct was awarded on Feb. 15 by the Topeka Ry. Co. to the BLODGETT CONSTRUCTION CO., 5 Water-Works Bldg., Kansas City, Mo., at about $45,000. E. W. Wilson, Pekin, Ill., is Pres. Ry. Co.

STEVENSVILLE, MONT.—O. E. PEPPARD, Missoula, has been awarded the contract for the construction of a bridge at Stevensville, at $4,951.

FORT WORTH, TEX.—The LEVERSEDGE BRIDGE CO., Fort Worth, was awarded the contract on Feb. 10 by the County Commissioners for the construction of a bridge over the Trinity River at Park St., at $5,600.

TILLAMOOK, ORE.—Bids are asked by the County Commissioners until March 4 for the construction of a bridge across Trask River, at Johnson place; also for bridge across same river at Hunt's place.

ASTORIA, ORE.—The contract has been awarded to BIRCH & JACOBSEN for replanking and replacing defective stringers, caps and piling on the Young's Way drawbridge at $3,813 and to put in new sway braces for $210.

OREGON CITY, ORE.—The Southern Pacific Ry. Co. may have a reinforced concrete bridge constructed at Sixth St. W. Hood, San Francisco, Cal., is Ch. Engr. Bridges.

PORTLAND, ORE.—The following bids were received on Feb. 14 by the Executive Board for the construction of the reinforced-concrete bridge across Sullivan's Gulch on East 28th St.: Paquet, Giebisch & Joplin, $73,000; Robert Wakefield, four plans, at $85,517, $81,723, $75,721, $75,805; Northwest Bridge Co., $64,400 and $69,300; Contracting Engineering Co. $67,750; Pacific Engineering Co., $84,978. Douglas W. Taylor is City Engr.

PASO ROBLES, CAL.—Bids are asked until 10 a. m., March 3, by the Board of County Supervisors for the construction of a steel and concrete highway bridge across the Salinas River on the Paso Robles and Shandon road at Paso Robles. H. H. Carpenter is Clk. Bd.

RATHDRUM, IDAHO.—The MIDLAND BRIDGE CO., 622 Gibraltar Bldg., Kansas City, Mo., has been awarded the contract by the County Commissioners for the construction of the bridge across the Spokane River near McGuire's station, at $3,877.

RESTIGOUCHE, N. B.—A bridge, 3,500 ft. long and estimated to cost $900,000, will be built here by the Northern New Brunswick & Eastern Quebec R. R. Co.

TORONTO, ONT.—C. H. Rust, City Engr., has estimated the cost of the construction of a bridge across the Don River at Wilton Ave. at $185,000.

CAINSVILLE, ONT.—A steel bridge with concrete abutments will be erected here by the Toronto, Hamilton & Buffalo Railway Co.

ALVINSTON, ONT.—Bids are asked until 3 p. m., March 6, by A. S. Code, O. L. S. C. E., County Engr., for the construction of various bridges in Brooke Township, Lambton County.

WINNIPEG, MAN.—THE C. S. HILL CO. have secured the contract for the construction of bridges at Cross Lake and Green Lake.

VANCOUVER, B. C.—N. A. Clement, City Engr., is preparing plans for a temporary bridge over False Creek at Westminster Ave., to be used while the new bridge is being built. This temporary structure will be located east of the existing bridge and will be 26 ft. wide with a 22-ft. roadway and six ft. for pedestrians. Estimated cost, $7,000. Bids are asked until March 2.

Bids are asked at the office of the City Clerk until March 2, for the construction of the substructures of the new bridges over False Creek, at Westminster Ave. and Granville St.; also for the wooden trestle approaches to the Granville St. structure, and the embankment approaches to the Westminster Ave. structure.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Albert R. Rogers, Pres. of the Boston Hippodrome Co., it is stated, is considering the erection of an opera house and hippodrome combined on the site of the old Park Sq. station, to cost about $5,000,000.

Hartwell, Richardson & Driver, Archs., 62 Devonshire St., have plans for a brick and stone library building for Leominster, Mass., to cost $70,000. J. D. Miller is member of the Building Committee.

BOSTON, MASS.—Plans for the addition to the Suffolk County court-house, Boston, have been approved and it is expected that bids will be called for about March 20. Revised plans provide for an addition of two stories in front and one and one-half in the rear. Cost, $900,000. George A. Clough, 46 Cornhill St., is Arch.; French & Hubbard are Heating and Ventilating Engrs., Boston.

NEW HAVEN, CONN.—The Sheffield Scientific School, Yale University, has decided to spend $700,000 for new buildings so located that they will form a new campus to be known as Sheff Square, extending from Grove St. to the railroad and from Hillhouse Ave. to Prospect St. The buildings will include an auditorium, a biological laboratory and a structure to take the place of Sheffield Hall. The old Sheffield homestead will be pulled down to make way for a new building. Arthur T. Hadley is Pres. Yale University.

CORNING, N. Y.—Bids are asked until 3 p. m., April 4, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing the proposed U. S. post-office at Corning.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 5, by Joseph Bermel, Pres. Boro. of Queens, for rebuilding the interior of the Queens County court-house at Long Island City, together with all the work incidental thereto, excepting all that provided for in the previous contract. Also for building an interior public bath in the Borough of Queens, together with all the work incidental thereto.

We are advised by Fred. C. Zoble, Arch., 114 East 28th St., that bids will be called the latter part of March for constructing a 10-story brick, stone, granite and reinforced-concrete hotel, 40 × 80 ft., at 90 Lexington Ave., for the Brunswick Realty Co., 114 East 28th St.

Ditmars & Brite, 111 Fifth Ave., are receiving estimates for an 8-story loft building, 74 × 85 ft., at 123 West 17th St., for the Domestic Realty Co., 28 West 22d St. Brick and limestone, architectural and structural iron and steel will be used in construction, with concrete fireproofing, plate glass arches, tiling, slag roof, gas and electric fixtures, water closets and lavatories. Cost, $100,000.

Bids are asked by Henry Smith, Pres. Park Board, until 3 p. m., March 5, for the erection and completion of an addition to the Metropolitan Museum of Art, to be known as the library wing (addition G), located in Central Park, on the west side of Fifth Ave.

NEW YORK, N. Y.—We are officially advised that George W. Conable, Arch., 15 Myrtle Ave., Jamaica, L. I., has prepared plans and will receive estimates for a brick and stone church, Sunday-school and parsonage, combined, for the German Evangelical Lutheran Church, 164 West 100th St., New York. The building will be 60 × 100 ft. and will cost about $50,000.

BUFFALO, N. Y.—Rev. T. P. Lynch, Pastor of the Church of Our Lady of Perpetual Help, is planning to build a parochial school on Alabama St., near O'Connell Ave. It is expected the work of building will be begun early in the spring. The cost will be about $60,000. It is planned that the school shall be a 3-story brick building, the basement to be fitted up for a gymnasium and boys' club. The first and second floors will be used for school purposes and the third floor for an assembly hall.

Plans which have been filed at the Bureau of Building show that the Children's Hospital, No. 219 Bryant St., is to be torn down and a new 2-story brick structure erected in its place, at a cost of $80,000. The new building will afford accommodation for 75 patients.

NEWARK, N. J.—At a recent meeting of the Market Committee of the Common Council, held at the City Hall, Jeremiah O'Rourke of Jeremiah O'Rourke & Sons, Archs., 756 Broad St., Newark, N. J., was instructed to prepare plans and specifications for an extension to Centre Market. The proposed extension will be 120 ft. long, extending along the Mulberry St. line from the present building to Commerce St., and will accommodate 14 stalls, seven on a side, with a center aisle.

NEWARK, N. J.—Nathan Myers, Arch., 238 Washington St., has let mason contract to WALTER E. EISETTS; carpenter work to GEORGE VARLEY, 31 Hudson St.; steam heat to DAVIS SEYMOUR, 47 Lawrence St., and plumbing to CHARLES F. McQUIRE, 313 Halsey St., for a 5-story brick apartment building, 65 × 75 ft., at Plane and Court Sts., for H. L. Baumann, care architect. Cost, about $60,000.

*SANDY HOOK, N. J.—Plans and specifications for the proposed barracks to be built at Fort Hancock are on file at the office of Engineering News, New York. Bids are asked until 2 p. m., March 19.

NORRISTOWN, PA.—We are officially advised that Baker & Dallett, Archs., 1639 Chestnut St., Philadelphia, have plans for a 3-story nurses' home for the State Asylum for Insane, Norristown, Pa. It will be built of brick, stone and steel, and will cost $50,000. Bids will be received in about one month.

PHILADELPHIA, PA.—As soon as necessary legal details are settled, work will be started upon the erection of a 4-story hotel for the Lafayette Hotel Co., at 816 Walnut St. It will adjoin the present Lafayette Apartments at 818 Walnut St., at the corner of Walnut and Darien Sts., and will conform architecturally to that building. The incorporators of the Lafayette Hotel Co. are L. A. R. Lichetti, 818 Walnut St.; George B. Smith, Charles E. Hardisan and Howard W. Smith, of Smith, Hardisan & Co., Builders, Perry Bldg.

We are advised by Watson & Huckel, Archs., 1211 Walnut St., Philadelphia, that contracts will be let the latter part of March for constructing a flat house to be erected in Germantown for G. Wallace Simpson, of the firm of L. P. Simpson & Son, 707 Walnut St. It will cost $80,000. According to the plans, the building will be three stories high, of stone and brick, on a lot measuring 60 × 152 ft. It will contain four flats of seven rooms and a bath each on each floor. The interior will be finished with hardwoods, tile and marble.

Permits have been granted to John Megraw, Land Title Bldg., to build a number of 2-story brick dwellings in West Philadelphia. The total cost will be $58,000. The plans were made by J. Elvin Jackson, 719 Walnut St. All the dwellings will be of the same general type, measuring from 15.5 × 44 ft. to 16.11 × 50 ft. They will be erected on Greenway Ave., between 53d and 54th Sts., and on 53d St.

*ERIE, PA.—Bids are asked until 3 p. m., April 1, by W. J. Flynn, Secy. Bd. of Education, for installing a heating and ventilating system in the Erie High School building.

PITTSBURG, PA.—The contract for the entire building and completion of the proposed Oliver Memorial Annex to the Southside Hospital, was awarded by Joseph L. Neal, Arch., 215½ Fourth Ave., Pittsburg, to JAMES STUART, Engr., Sixth Ave., who has been working on the foundation. The building is to be completed by Aug. 15. The new building is to be five stories high, with a frontage of 120 ft. on 20th St. and a depth of 80 ft. in Jane St. It is separated from the old hospital building by an alley, and the plans call for the construction of a tunnel under the alley connecting the new and old buildings and also an overhead bridge joining the upper floors of the two structures.

Janssen & Abbott, Archs., Machesney Bldg., are preparing plans for a 7-story fireproof addition, 100 × 110 ft., to the Fort Pitt Hotel, Tenth St. and Penn Ave., for the Fort Pitt Improvement Co. The building will cost $400,000.

PITTSBURG, PA.—A storage warehouse to cost between $150,000 and $200,000 will be erected on the lot at 6344 Penn Ave. purchased by A. E. Benford of Greensburg for $80,000. A new company has been organized which will retain the name of Blanck's Express & Storage Co. The stockholders of the new corporation will erect a stone and concrete fireproof structure and will establish a package delivery system throughout the East End, Wilkinsburg and Swissvale. The officers of the company are: A. E. Benford of Greensburg, Pres.; C. C. Lee, 450 Fourth Ave., Vice-Pres., and Frank P. Howley, Fourth Ave., Secy. and Treas. The property on which the new building will be erected is 60 × 198 ft. and is at present occupied by stables.

BALTIMORE, MD.—The James P. Shannon Hotel Co., it is reported, intends making improvements to the hotel, at a cost of $75,000. E. P. Herbert is Mgr.

BALTIMORE, MD.—The Medical and Chirurgical Faculty of Maryland, M. C. Noyes, Librarian, 847 Hamilton Terrace, has secured site on Cathedral St. on which to erect the proposed library and public health institute. The Building Committee expects to secure a fund of $100,000 and Legislature has been petitioned to appropriate $100,000, making total cost of structure $200,000.

The Edmondson Realty Co., J. Henry Strohmeyer, Pres., 620 Equitable Bldg., Baltimore, will build 48 2-story dwellings, 16 × 50 ft., after private plans, on Edmondson Ave. They will be constructed of brick, with metal lath, electric wiring, tin roofs, cement, galvanized iron cornices and furnaces, and will cost $120,000. Mclver & Piel, on premises, will supervise work.

BALTIMORE, MD.—Contract has been awarded by Ephriam Macht, Equitable Bldg., to the DAVID M. ANDREW CO., Vickers Bldg., for the exterior work of an office building to be erected at 11 East Fayette St. The building will have four stories with attic and basement. It will have a facade of brick and stone and will cost about $75,000. A. Lowther Forrest, Professional Bldg., Baltimore, is Arch.

WASHINGTON, D. C.—Bids were received as follows Feb. 20 at the office of Bernard R. Green, Const. Supt. of the U. S. National Museum Building, Washington, D. C., for a quantity of construction work in connection with the Museum building. Iron work, under two plans (a) and (b): Bealor & Schmidt, Twining City, D. C., (a) $36,000, (b) $32,800; Hecla Iron Works, 118 North Eleventh St., Brooklyn, N. Y., (a) $39,700, (b) $37,700; L. Schreiber Sons Co., Eighth and Culvert Sts., Cincinnati, Ohio, (a) $34,577, (b) $33,341; J. L. Mott Iron Works, 118 Fifth Ave., New York, (a) $38,257, (b) $37,017; Van Dorn Iron Works, Cleveland, Ohio, (a) $35,115, (b) $38,250; Richmond Iron Works, Richmond, Va., (a) $42,476, (b) $41,983; Smead & Co. Iron Works, foot of Pine St., Jersey City, N. J., (a) $53,100, (b) $39,511; Brown Ketcham Iron Works, 2549 West Michigan St., Indianapolis, Ind., (a) $29,490, (b) $26,190; Flour City Iron Works, Minneapolis Minn., (a) $36,500, (b) $34,550; Richey, Brown & Donald, New York, (a) $49,900, (b) $47,900.

Flooring. Prices quoted on four floors, (1), (2), (3), (4), on Tennessee marble work, mosaic work, marbleilthic work and granolithic work: National Mosaic Co., 338 Pennsylvania Ave., N. W., Washington, D. C., Tennessee marble, (1) $125,046, (2) $64,649, (3) $46,903, (4) $7,355; mosaic, (1) $75,028, (2) $56,238, (3) $47,065, (4) $70,614; marbleilthic, (1) $90,943, (2) $43,925, (3) $59,649, (4) $85,594. William Bradley & Sons, 90 West St., New York, Tennessee marble, (1) $150,632, (2) $77,363, (3) $55,593, (4) $8,918; mosaic, (1) $116,000, (2) $56,300, (3) $73,000, (4) $100,000. R. J. Beall Construction Co., Washington, granolithic, (1) 13.5 cts. per ft., (2) 14 cts., (3) 14.5 cts., (4) $6,449. Thomas J. Hine, Boston, Mass., granolithic, (1), (2) and (3) 20 cts. per ft., (4) $7,950. American Mosaic Co., 1241 Seventh St., N. W., Washington, D. C., Venetian mosaic, (1) $66,065, (2) $31,644, (3) $41,428, (4) $62,170. Brennan Construction Co., 3056 K St., Washington, D. C., granolithic, (1), (2) and (3) 12 and 13 cts. per ft., (4) $8,045. Baltimore Marble & Mosaic Works, Baltimore, marbleilthic, (1) $95,140, (2) $46,012, (3) $59,065, (4) $89,194.

Plastering, on four floors: McNulty Bros., Railway Exchange Bldg., Chicago, (1) $63,800, (2) $69,800, (3) $66,800, (4) $68,800; Lennox Haldeman Co., 204 Dearborn St., Chicago, (1) $76,500, (2) $84,500, (3) $80,150, (4) $78,500; Murray Bros., Washington, D. C., (1) $79,990, (2) $85,560, (3) $89,590, (4) $85,840; J. J. Roberts, New York, (1)

$89,967, (2) $107,800, (3) $93,500, (4) $95,000; Klee-Thompson Co., 327 East 40th St., New York, (1) $89,775, (2) $119,775, (3) $98,000, (4) $95,000.

Furring and lathing: Oliver & Burr, 1 Madison Ave., New York, $28,246; McNulty Bros., Railway Exchange Bldg., Chicago, $15,900; $14,600 if awarded plastering; and theatre. Cost, $750,000.

Terra cotta fireproofing: Whitaker Fireproofing Co., Waynesburg, Ohio, $25,900; O. W. Ketcham, Philadelphia, $21,700; National Fireproofing Co., Washington, $23,338.

GREENSBORO, N. C.—Bids are asked until March 16 for constructing a brick Science Building for the State Normal and Industrial College, Greensboro. Hook & Rogers, Trust Bldg., Charlotte, N. C., are Archs. J. I. Foust is Pres.

CHARLOTTE, N. C.—We are officially advised that the GENERAL FIREPROOFING CO., Youngstown, Ohio, has secured the contract for the entire reinforcement for the new building of the Charlotte Sanatorium Co., at Charlotte, N. C. Pin-connected girder frames and cold twisted lug bars are to be used throughout the reinforced-concrete operation of the work, and for the partitions and ceilings. Herringbone expanded steel lath over allunited steel studding is specified.

CHARLESTON, W. VA.—Plans are being prepared by Harding & Upman, Archs., 1316 G St., N. W., Washington, D. C., for a 12-story office building, 41.6 × 94 ft., for C. M. Alderson and Samuel Stephenson, Charleston, W. Va. It will be constructed of granite and press brick, composition roof, galvanized iron and copper cornice and skylight, structural, ornamental and architectural iron, mahogany finish, and tile floors. Cost, $150,000.

BIRMINGHAM, ALA.—Bids will be received about May 15 for constructing a 15-story building for the Empire Construction Co. It will be 50 × 100 ft. and will cost $400,000. The Jemison Real Estate & Insurance Co., 2024 Third Ave., is Mgr.

BIRMINGHAM, ALA.—Plans are being considered for erection of office building on site, 100 × 140 ft., owned by the Jordan estate, represented by I. F. Young, 1811 First Ave., and W. G. Oliver, 2025 Third Ave., Birmingham. The structure will be twelve stories high; frontage, 140 ft.; steel fireproof, with seven elevators. Cost, $750,000.

AUBURN, ALA.—The Alabama Polytechnic Institute, Charles C. Thatch, Pres., has adopted plans by N. C. Curtis, Professor of Architecture, for erection of agricultural building to cost about $60,000. W. F. Feagin, Secy. of Bldg. Com., has been instructed to advertise for bids for erection of Carnegie Library building. The structure will be two stories high, 76 × 50 ft., equipped with exhaust-steam heating plant and electric lighting, and cost about $35,000. The Legislature has appropriated $56,000 for four years for the various improvements now being undertaken.

NEW ORLEANS, LA.—The contract to erect the Touro synagogue, it is reported, has been awarded to GEORGE J. GLOVER, Hibernian Bldg., New Orleans, at $81,000.

CHATTANOOGA, TENN.—CECIL A. SANDERS, Cleveland, Ohio, has contract at $93,280 for erection of extensions to U. S. post-office and court-house at Chattanooga. The west wing is to be four stories high and east wing one story high. Appropriation, $110,000. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C. Noted fully on Feb. 20.

COLUMBUS, OHIO.—Bids were received as follows, Feb. 18, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the Columbus post-office: Robert H. Evans & Co., Columbus Savings & Trust Bldg., Columbus, $358,354, 20 months; John Grant's Sons Co., Cleveland, $384,000; Charles W. Gindele, 3333 La Salle St., Chicago, $336,650; Noel Construction Co., German and Calvert Sts., Baltimore, $343,800, August, 1909; E. K. Hibbs, Columbus, Ohio, $378,999, 20 months; Cramp & Co., Commonwealth Bldg., Philadelphia, $344,000; Bailey & Koerner, Louisville, Ky., $390,004; D. W. McGrath, First National Bank Bldg., Columbus, Ohio, $389,892; George A. Abernethy, Columbus, Ohio, $359,600; John William Heikert, Columbus, Ohio, $359,000; Walker Smith, Columbus, Ohio, $363,682, 30 months. Time to complete, Nov. 1, 1909.

YOUNGSTOWN, OHIO.—Contracts will be let about March 1 for constructing a 2-story warehouse, 140 × 52 ft., on West Rayen Ave., for Dalzell Bros. Miller & Ford, Dollar Bank Bldg., Youngstown, are Archs.

NEWARK, OHIO.—Howell & Thomas, Archs., Columbus Savings and Trust Bldg., Columbus, are preparing plans for an arcade building for the Newark Realty & Building Co., Newark, Ohio. It will be two stories high in the middle and three stories on each front, 60 × 400 ft., of press brick, with stone trimmings, gas and electric fixtures, plate glass, plumbing, tile and marble work, etc. Cost, about $100,000. The incorporators of the company are Carl Norpell, Charles H. Spencer, Frank Kennedy, E. T. Rugg and Warren S. Welant, all of Newark.

DETROIT, MICH.—Robert E. McKisson, care Homer Warren & Co., Chamber of Commerce Bldg., will build a hippodrome, it is stated, with a seating capacity for 5,000 persons, to be used for conventions, music hall and theatre. $750,000.

CHICAGO, ILL.—William J. Brinkman, Arch., Metropolitan Block, is preparing plans for an auditorium for the Archbishop of Chicago. Cost, $75,000.

Holabird & Roche, Archs., 1618 Monadnock Bldg., are preparing plans for a 10-story fireproof 60 × 120-ft. building to be erected by M. Born & Co. at 340 Fifth Ave., at a cost of $250,000.

The masonry, reinforced concrete and carpenter contracts have been awarded by H. L. Ottenheimer, Arch., 134 Monroe St., to PAUL F. P. MUELLER, 109 Randolph St., for a 10-story fireproof warehouse, at Dearborn Ave. and the Chicago River, for Steele-Wedeles Co. S. B. Steel, Secy., 175 South Water St. Cost, $300,000.

GREEN BAY, WIS.—Plans are being prepared by C. E. Bell, Northwestern Bldg., Minneapolis, Minn., for a 2-story court-house to be built at Green Bay, to cost $200,000.

SUPERIOR, WIS.—Earl W. Barber, of West Superior, is preparing plans for a high school, to cost about $275,000. L. A. Nichols is Secy. Bd. of Education.

MARINETTE, WIS.—Bids were opened Feb. 25 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office building at Marinette, Wis.: M. Traeger & Son, Danville, Ill., $76,223; Herbert T. Hazelton, Chicago, $66,975; Charles W. Gindele, Chicago, $67,750; Carl J. Lange and R. T. Hoffmann, Appleton, Wis., $77,938; General Construction Co., Milwaukee, Wis, $72,571; George L. Smith Co., South Kaukauna, Wis., $79,000; Northern Construction Co., Milwaukee, Wis., $73,500; J. E. Ulke, Marinette, Wis., $77,000; Louis Fabry, Eugene Pinchard and Charles Pinchard, Green Bay, Wis., $67,492; W. T. Turner Co., Chicago, Ill., $71,732; James W. Bishop, Crawfordsville, Ind., $76,817.

ST. PAUL, MINN.—Mark Fitzpatrick, 14 West Ninth St., city, has prepared sketches for a 10-story pressed-brick, cut-stone, reinforced-concrete fireproof structure, to be built here, probably at Fifth, Fourth and St. Peter Sts. Isaac T. Cook, St. Louis, Mo., is the representative of the syndicate back of the proposition. Cost, $1,000,000.

Mr. Fitzpatrick is drawing plans for a 15-story pressed-brick and cut-stone office building, also for a St. Louis syndicate, represented by Isaac T. Cook, 17 West Ninth St., St. Paul. Cost, $300,000.

MANKATO, MINN.—The State Board of Control, P. M. Ringdahl, Chn., St. Paul, received the following bids for the construction of the model school building at the State Normal School here: J. B. Nelson & Co., Mankato, $72,110; E. A. Carlstrom, Mankato, $74,681; Neitge, Mankato, $74,875.

ATCHISON, KAN.—Saylor & Seddon, Kansas City, are preparing plans for a high school building for the Board of Education, care of H. H. Hackney, Atchison, which will cost $75,000.

OMAHA, NEB.—John Latenser, Arch., Bee Bldg., is preparing preliminary plans and will receive bids for a 3-story apartment building, 60 × 200 ft., for the William A. Paxton Estate, 509 Ware Block. Brick and stone will be used in construction. Cost, $250,000.

KANSAS CITY, MO.—The First Baptist Congregation, Rev. Benjamin Otto, Pastor, will erect a stone church, 86 × 121 ft., which will cost $80,000. LOUIS GRUB has the foundation contract. Sheppard & Farrar, Long Bldg., are Archs.

ST. LOUIS, MO.—The three lowest bidders for the construction of a 3-story public school building, 242 × 80 ft., at Walnut Park, were as follows: Wall Bros., 2719 Arlington Ave., $161,627; Joseph J. Wharton, 2829 University St., $167,412; T. W. Hackett, 3015 Lucas Ave., $169,500. William B. Ittner is Arch. for the Board of Education, Ninth and Locust Sts.

Eames & Young, Archs., Wright Bldg., are preparing plans for a 28-story buyer club building, 244 × 344 ft., at 17th, 18th, Pine and Chestnut Sts., for H. A. Vrooman, 8½ North Eighth St. Brick, stone and reinforced concrete will be used for construction. Cost, $3,500,000.

Plans are being prepared by Charles R. Green, 943 Beach Ave., for a 4-story apartment building, 102 × 197 ft., at McPherson St. and Union Boulevard, for M. P. Pufeles, 520 Washington Ave. Cost, $150,000.

*NEVADA, MO.—Bids are asked until 3 p. m., April 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. post-office at Nevada.

SEATTLE, WASH.—Contracts calling for the expenditure of nearly $200,000 are to be let soon by James A. Moore, Lumber Exchange, for the completion of the Moore theater building at Second Ave. and Virginia St. The only portion of the building that was completed was the theater, and nothing at all has been done of the remainder except to put in the concrete floors and put in the windows. There are about 200 rooms to be finished besides the stores on the ground floor. The building will be made available for hotel purposes.

TACOMA, WASH.—Bids are asked until 3 p. m., April 14, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing, except elevators, the U. S. post-office, court-house and custom-house at Tacoma.

SPOKANE, WASH.—FRED PHAIR, Spokane, has secured contract to construct the proposed Paulsen building, to be erected at Riverside Ave. and Syevens St., at $211,560. Work is to be completed Feb. 1, 1909. August Paulsen is owner.

EVERETT, WASH.—Bids are asked by the Great Northern Ry. Co. until March 16 for the construction of the 2-story pressed brick and cut-stone passenger station to be built here. Reed & Stem, Endicott Bldg., St. Paul, Minn., are Archs. A. H. Hogeland, St. Paul, is Ch. Engr. Cost, $200,000.

SAN FRANCISCO, CAL.—G. F. Bodley & C. S. Hall, Archs., London, England, have made tentative plans for the new Episcopal Cathedral, at California and Jones Sts., San Francisco. Approximate cost, $1,000,000. The Rev. William Ford Nicholls is Bishop of San Francisco, 1215 Sacramento St.

SANTA ROSA, CAL.—The City Council has approved plans and specifications for new municipal buildings to replace those destroyed by the earthquake and fire of 1906. There will be a new city hall with steel frame and reinforced concrete to accommodate all city officials. Adjoining will be a fire station. The estimated cost of the building is $75,000, and the site will cost about $20,000. The site of the Grand Hotel at Main and Third Sts., has been selected. L. E. Ricksicker is City Engr.

LOS ANGELES, CAL.—Harrison Albright, Loughlin Bldg., has been selected to prepare plans for a 10-story reinforced-concrete club building, at Seventh and Olive Sts., for the Los Angeles Athletic Club. The basement will contain an entrance lobby and a locker room, with 2,500 lockers, a natatorium, with a plunge 40 × 100 ft., a bowling alley, rifle range, barber shop, Turkish bath department and accessories. Cost not to exceed $650,000. The building committee consists of Frank A. Garbutt, H. W. Hellman Bldg.; William M. Garland, Huntington Bldg., and Milo M. Potter.

BOISE, IDAHO.—E. W. Houghton, Collins Bldg., Seattle, has completed plans for the proposed $75,000 theatre. Tourtellotte & Hummel, Archs., Overland Bldg., will supervise building. It is to be of brick and reinforced concrete, and will seat 1,300.

WINNIPEG, MAN.—William Mackenzie, Pres. Canadian Northern Ry. Co., states that contracts will be let before April 1 for the erection of a union depot and hotel for the Canadian Northern and Grand Trunk Pacific railways. M. H. McLeod is Gen. Mgr., Winnipeg.

Pearson & Darling, Canada Life Bldg., are preparing plans for a bank building to be erected on Portage Ave. for the Bank of Nova Scotia. Bids will be called shortly. In the basement will be a modern safety deposit vault. All partitions will be of tile and white marble will be used in construction. Estimated cost, $250,000.

VANCOUVER, B. C.—The NATIONAL CONSTRUCTION CO., of this city, has been awarded the contract for the erection of a brick office building, six stories high, at a cost of $100,000, for the J. Song Mong Lin Co., according to plans prepared by Hooper & Watkins, Archs., corner Hastings and Homer Sts., Vancouver.

Loo Gee Wing, of Vancouver, has had plans prepared for a 6-story store and office building to be erected on the corner of Hastings and Abbott Sts. here, at a cost of $125,000. The structure will be of reinforced concrete construction throughout.

Parr & Fee, 330 Homer St., have let the contract to W. HEPBURN for the construction of a 6-story block on Pender St. for R. Martin of this city, and Arthur Robertson, Victoria. Cost, $100,000.

WATER SUPPLY—IRRIGATION.

MARION, MASS.—We are officially advised that the F. H. HAYES MACHINERY CO., Boston, Mass., was awarded the contract on Feb. 17 by the city, for furnishing and erecting pumping machinery for the water-works system, at $7,756. Louis E. Hawes, Marion, is Engr.

WALTHAM, MASS.—The Lynchburg Foundry Co., Lynchburg, Va., was the lowest bidder on Feb. 19 for furnishing the Water Department with service pipe, at $25.35 per ton for 4 or 6-in. pipe.

*SPRINGFIELD, MASS.—We are officially advised that the following contracts for furnishing cast-iron water pipe were awarded on Feb. 24 by the Water Department: For furnishing 157 tons 6-in., 227.5 tons 8-in., 427.5 tons 10-in., 205.5 tons 12-in., 158 tons 16-in., 169.5 tons 20-in., Class E pipe, to CHARLES MILLAR & SON CO., Utica, N. Y., at $32,549; for furnishing 146 tons Class C pipe from 4 to 24 ins., inclusive, same firm, at $3,540; for furnishing 563.5 tons 36-in. Class E water pipe, U. S. CAST IRON PIPE & FOUNDRY CO., Land Title Bldg., Philadelphia, Pa., at $13,749; for furnishing 43.2 tons 30-in., 67.8 tons 36-in., 28.2 tons 42-in., Class C, water pipe, same firm, at $3,396; for specials under 30 in., CHARLES MILLAR & SON CO.; over 30-in., U. S. CAST IRON PIPE & FOUNDRY CO. E. E. Lockridge is Ch. Engr. Bd. Water Comrs.

*SPRINGFIELD, MASS.—Bids are asked by the Board of Water Commissioners until 2 p. m., March 25, for the construction of a sedimentation basin, six covered masonry filters, buildings and appurtenances. E. E. Lockridge is Ch. Engr. Bd.

Specifications for the above work are on file at the office of Engineering News, N. Y.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., March 4, for furnishing and delivering iron castings for the Borough of Brooklyn.

*NEWARK, N. J.—We are officially advised that JOHN FOX & CO. were awarded the contract on Feb. 13 by the Board of Street and Water Commissioners for coated cast-iron water pipe and special castings, at $24,908. George Sanzanbacher is Engr. and Supt. Dept. Water. Morris R. Sherrerd is Ch. Engr. Bd.

*PETERSBURG, VA.—Bids are asked by the Water Commission until noon, March 12, for the construction of a 60,000-gallon steel water tower, bidders to submit plans of tower to R. D. Budd, City Engr., until March 8, for approval.

CHARLOTTE, N. C.—The ATLANTIC BITULITHIC CO. was awarded the contract on Feb. 18 by the Board Water Commissioners for laying water mains at about $30,000.

COMMERCE, GA.—J. B. McCRARY & CO., Atlanta, Ga., have been awarded the contract for the construction of a water-works system here, at $86,000.

SANDERSVILLE, GA.—Contracts have been awarded to L. J. WAGNER, Atlanta, Ga., for laying one mile of 6-in. water mains and about the same amount of 1¼-in. service pipes. Arthur Pew, Temple Court, Atlanta, Ga., is Engr.

JACKSON BARRACKS (New Orleans post-office), LA.—We are officially advised that John H. Murphy, New Orleans, was the lowest bidder on Feb. 14 for removing old water tank from tower and constructing a new tank.

MAYFIELD, KY.—See under Light and Power Plants.

COLUMBUS, OHIO.—The Board of Public Service has authorized the expenditure of $20,000 for extending the water mains. Henry C. Maetzel is City Engr.

TOLEDO, OHIO.—Bids are asked until noon, March 4, by the Board of Public Service for cast-iron pipe, special castings, etc. Reynold Voit is Secy. Bd.

EVANSVILLE, IND.—The City Council has decided to have a filtration plant constructed. Bids will be asked as soon as plans are completed.

DETROIT, MICH.—The Board of Water Commissioners awarded the contract on Feb. 18 for 2,650 tons water pipe to the AMERICAN CAR & FOUNDRY Co., at $25.74 per ton and for special castings to the same firm at $2.75 per 100 lbs. Robert H. McCormick is City Engr.

BLOOMINGTON, ILL.—C. P. Pauntz, City Engr., has estimated the cost of laying the 20-in. water main from the pumping station to the vicinity of the Cleveland, Cincinnati, Chicago & St. Louis Railway, at $3,490.

FT. SHERIDAN, ILL.—Bids are asked until March 2 by Lieut. B. T. Merry, Constructing Q. M., U. S. A., for furnishing material and constructing an extension to the water distributing system at this post.

WARSAW, ILL.—It is proposed to construct a water-works to cost about $10,000. Jesse M. Eckhorn is City Engr.

NORTH MILWAUKEE, WIS.—We are officially advised that all bids for filter beds and pumping plant have been rejected and the motor changed over from alternating to direct-current. New bids are asked until March 2. W. G. Kirchoffer, Madison, Wis., is Engr.

EAU CLAIRE, WIS.—Plans and specifications for the construction of a highway bridge and movable dam across the Chippewa River are on file at the office of Engineering News, New York. Bids are asked until March 4.

ST. PAUL, MINN.—The Board of Water Commissioners, John Caulfield, Secy., has awarded the contract for a concrete conduit at Lake Pleasant and Sucker Lake to J. H. DONOHUE, Gilfillan Block, St. Paul, at $10,447.

STILLWATER, MINN.—The following bids have been received by the State Board of Control, P. M. Ringdahl, Chn., St. Paul, Minn., for the construction of the water-works system here at the state prison: W. D. Lovell, 1415 Eighth St., S. E., Minneapolis, Minn., $19,500; J. G. Robertson, 29 Gilfillan Block, St. Paul, Minn., $19,770; Des Moines Bridge & Iron Works, Des Moines, Iowa, $24,590; W. C. Fraser, Rochester, Minn., $32,500.

SANDERS, MONT.—Bids are asked by Fred. E. Gordon, Secy. Sanders Co-operative Ditch Co., Sanders, until March 2, for the construction of head gate, wasteway and two flumes. The company will furnish all material, all to be heavy timber structures.

LAWTON, OKLA.—KERBY, MAYFIELD & SHAW have been awarded the contract for the construction of a water-works system for the Fifth Ward at $20,000. Frank B. King and John D. Kennard are the Engrs.

*BARTLESVILLE, OKLA.—We are officially advised that the R. J. & W. M. BOYD CONSTRUCTION CO., 200-202 S. W. Boulevard, Kansas City, Mo., was awarded the contract by the city for furnishing all material and constructing complete about 25,000 ft. of 8-in., 6,000 ft. of 10-in., 3,500 ft. of 12-in. tile sewer, 750 Y branches, 2,000 cu. yds. rock excavation, 35,000 ft. of trench from 4 to 16 ft. deep, 85 manholes, 100 cu. yds. concrete masonry, at $29,979. E. C. D'Yarmett is City Engr. Detailed list of bids will be given next week.

KREMMLING, COLO.—Plans for a reservoir on Blue River, 15 miles above Kremmling, to cost $750,000, have been filed in the state engineer's office by D. A. Lord and M. C. Smith, New York. The proposed dam across the river will be 325 ft. high and 1,700 ft. wide, with a capacity of 35,000,000 cu. ft. The area to be covered by the reservoir will be 8,057 acres.

Besides reclaiming some 15,000 acres of valley lands there, the system will also be used for generating power and transmitting it to cities and towns, as well as mining camps, within a radius of 100 miles.

NORTH YAKIMA, WASH.—We are officially advised that all bids for the construction of the Natches branch of the Tieton distribution system have been rejected by the Reclamation Service. New bids will probably be asked late this year. Charles H. Singart is Project Engr.

*PORTLAND, ORE.—Specifications are on file at the office of Engineering News, N. Y., for the construction of Clear Lake dam and dikes, located about 55 miles southeast of Klamath Falls, Klamath Project, Oregon-California. Bids are asked until April 15.

*MONTREAL, QUE.—Bids are asked until noon, March 24, at the office of the City Clerk, City Hall, for furnishing and erecting at the low level pumping station, one 12,000,000-Imperial gallon steam pump. George Janin is Supt. W.-Wks.

VICTORIA, B. C.—A. L. Adams, San Francisco, Cal., has been instructed to prepare plans for a water-works system on Smith's Hill, and a general distribution system.

SEWERAGE.

LONG ISLAND CITY, L. I., N. Y.—The Local Board passed a resolution to initiate proceedings for the construction of a sewer, for house sewage only, through Jamaica Ave. from the Brooklyn Borough line to Freeman Ave., Richmond Hill, with a temporary pumping chamber at Freeman Ave. Estimated cost, $72,500.

GLOUCESTER CITY, N. J.—Bids are asked until 8 p. m., March 5, by J. J. Mannion, City Clk., for the construction of terra-cotta sew-

ers in Brown, East Brown, Somerset, west of Brown, Chambers, Gaunt, East Bergen, Kathryn and Francis Sts.

SCOTTDALE, PA.—J. B. Hogg, Boro. Engr., has awarded RICHER & GRAFF, Scottdale, the contract for furnishing 4,075 ft. of 12-in. sewer pipe, 1,350 ft. of 10-in. pipe and 1,200 ft. of 8-in. pipe, to be used in the construction of the Anderson Run sewer, which will cost approximately $30,000. The work will be done by the borough, and will be under the direct supervision of the Borough Engineer.

BRADFORD, PA.—J. SHEEHAN, Bradford, has been awarded the contract for constructing a sewer in Fisher Ave. E. C. Charlton is City Clk.; A. F. Bannon, Jr., is City Engr.

NEW CASTLE, PA.—The Council has decided to extend the Fifth Ward storm sewer, and for this purpose has appropriated the sum of $25,000. Bids will be asked in the spring. C. H. Mulholland is City Engr.

EASTON, MD.—The Sewerage Commission, Gen. Joseph B. Seth, Chn., has approved the plans of Williams, Proctor & Potts, Engrs., 17 Battery Place, New York, N. Y., for sewer system for this place. Estimated cost, about $36,366.

MONTGOMERY, ALA.—The SOUTHERN BITULITHIC CO., Nashville, Tenn., has been awarded the contract by the city for constructing storm sewers.

*CHATTANOOGA, TENN.—Bids are asked until 2.30 p. m., March 17, by the Board of Public Works for the construction of a brick main sewer, on Chestnut St., from Tennessee River to Ninth St. The approximate lengths will consist of 3,900 ft. egg-shaped sewer, varying in dimensions from 44 x 66-in. to 63 x 94½-in., and 175 ft. of 72-in. circular sewer. H. F. Van Dusen is Chn. Bd.

OAKLEY (Cincinnati post-office), OHIO.—Bids are asked until noon, March 7, by E. C. Burkhardt, Village Clk., for the construction of a sewer in Gilmore Ave.

CLEVELAND, OHIO.—Bids are asked until noon, March 3, by A. R. Callow, Secy. Board of Public Service, for the construction of sewers in various streets, avenues, courts and roads.

*SPRINGFIELD, OHIO.—The contract for the construction of the high-level intercepting sewer was awarded on Feb. 18 by the Board of Public Service to GOULD & WRIGHT. Detailed list of bidders given on Feb. 6.

HAMILTON, OHIO.—The County Commissioners on Feb. 18 awarded the contracts for the construction of the Crawford Run sewer as follows: First section, to F. J. DAVIS, Hamilton, at $8,700; second section, A. T. BENNETT, at $9,325; third section, IRONTON CONSTRUCTION CO., Ironton, Ohio, at $45,800.

MUNCIE, IND.—The Board of Public Works will soon ask for bids for the construction of a large sewer in West Jackson St.

LINTON, IND.—J. H. GREEN & SONS, Appleton, Wis., have been awarded the contract, at $60,000, for the construction of sewers for Linton.

MT. CARMEL, ILL.—We are officially advised that Guy W. Courter, Mt. Carmel, has completed plans for a sanitary sewer system for this city. Estimated cost, $75,000.

DANVILLE, ILL.—W. H. Martin, City Engr., is preparing plans for an 18-in. tile sewer, 15,000 ft. long, in East Danville, for the Board of Local Improvements. Estimated cost, $40,000.

HOOPESTON, ILL.—C. E. Cottingham, Consulting Engr., Danville, Ill., is preparing plans for a brick and tile sanitary sewer for this city. Estimated cost, $100,000.

MARINETTE, WIS.—L. B. Hillis, City Engr., is preparing plans for the construction of a sewer on Sherman Ave., from Minneapolis to Schields Sts., and on Josephine St., from Lewis St. to Sherman Ave.

TWO HARBORS, MINN.—Plans are being prepared by the Minnesota Engineering Co., Providence Bldg., Duluth, Minn., for the construction of sewers. Estimated cost, $25,000. P. J. McAlpine is City Clk.

ST. PAUL, MINN.—The Board of Public Works, R. L. Gorman, Clk., will soon ask for bids for the construction of a gravity sewer system in Portland and Aldine Sts., for which plans have just been completed by L. W. Rundlett, City Engr. Estimated cost, $132,000.

NORTH PLATTE, NEB.—We are officially advised that MATT & O'BRIEN, Independence, Mo., were awarded the contract on Feb. 18 by Hershey S. Welch, City Engr., for the construction of a sewer, consisting of 4,840 ft. 10-in. pipe, 112 6 x 10-in. Y's, at $3.286, exclusive of manhole frames and covers, etc.

HARTINGTON, NEB.—We are officially advised that the City Council has engaged Arnold C. Koenig, Consulting Engr., Omaha, Neb., to prepare plans and specifications for a complete system of sanitary sewerage and storm water sewers for the business portion of the city. Surveys are now in progress and bids for the construction of the main sewers will probably be asked early in the spring.

ST. JOSEPH, MO.—The LAND CONSTRUCTION CO. has been awarded the contract, at $4,000, for three vitrified pipe lateral sewers. D. L. Lawlor is City Engr.

ST. LOUIS, MO.—The Board of Public Improvements has passed an ordinance providing for the construction of a section of the Harlem Creek and other sewers. Estimated cost, about $125,000.

KANSAS CITY, MO.—The West Side City Council passed an ordinance on Feb. 4 providing for the construction of a sewer from 18th St. and Muncie Boulevard to the Kaw River. Estimated cost, $100,000. A. Harper is City Engr.

FRUITA, COLO.—JAMES H. GIBBS, Montrose, Colo., was awarded the contract on Feb. 4 for installing a complete sanitary sewerage system here, at $10,000.

MOUNT VERNON, WASH.—City has engaged Dunn & Dunn, Alaska Bldg., Seattle, Wash., to plan a sewer system for this city. A part of the system will be gravity, but some portion will need pumping machinery. Plans will be ready for final estimates in about five weeks.

SELLWOOD (Portland post-office), ORE.—The City Engineer has prepared plans for both a sanitary and a combined sewerage system.

OAKLAND, CAL.—Bids are asked until 11 a. m., March 18, by the Board of Public Works for the construction of an intercepting sewer in Third St., from Myrtle St. to Union St., with an outlet in Linden St. from Third St., southerly. Walter B. Fawcett is Secy. Bd.

NORTH BAY, ONT.—The Council has instructed the City Engr. to prepare plans and estimate of cost of a reservoir at Trout Lake, to hold about 1,000,000 gallons.

CALGARY, ALTA.—Bids are asked by H. E. Gillis, City Clk., until March 1, for sewer pipe.

GARBAGE DISPOSAL.

PROVIDENCE, R. I.—The contract for the removal of swill and garbage from the city for a period of three years was awarded by the Board of Aldermen on Feb. 19 to CHARLES E. CLARKE, Seekonk, Mass., at $2,900 per year.

SARATOGA SPRINGS, N. Y.—Bids are asked until March 3 by the Sewer, Water and Street Commission for sprinkling certain streets in the village from May 1 to Oct. 15, 1908. The number of square yards to be sprinkled is 462,894, and bids are to be asked on the price per sq. yd. Philip S. Wakeley is Clk. Comn.

SCRANTON, PA.—Bids are asked by F. L. Wormser, Dir. of Public Safety, until 10.30 a. m., March 14, for the removal and disposal of garbage, rubbish and ashes.

WASHINGTON, D. C.—The Pollock Draying Co. has submitted the lowest bid for the collection of ashes from private residences, at $69,544.

LEXINGTON, KY.—The Home Construction Co. submitted the lowest bid on Feb. 18, for furnishing and spreading crude oil on the city streets for the year 1908, at $3.98 per 100 gallons, for Raglan oil.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of Marion County until March 7, for furnishing and delivering one modern steam road roller; bidders to furnish full specifications. Albert Salem is County Audr.

BELLINGHAM, WASH.—A plan is under consideration for the construction of a municipal garbage crematory, estimated to cost $8,000.

SACRAMENTO, CAL.—Bids are asked until March 2 by M. J. Desmond, City Clk., for a 10-ton street roller of modern and approved type.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

MONTAGUE, MASS.—OLIN T. BENEDICT, Pittsfield, Mass., has been awarded the contract by the State Highway Commission for the construction of 5,600 ft. state highway in Montague, at $9,064.

HARTFORD, CONN.—The Court of Common Council has authorized the Board of Finance to include in its budget the sum of $3,000 for macadamizing Prospect Ave., northerly from Asylum Ave.

BUFFALO, N. Y.—Resolutions have been passed by the Common Council ordering that various streets be paved and repaved. Francis G. Ward is Comr. Pub. Wks.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., March 11, by Bird S. Coler, Boro. Pres., for delivering 500 net tons of refined asphalt and for fencing vacant lots with wooden rail fences, six feet high, on the south side of Poplar St., between Hicks St. and Henry St., and on various other streets in the Borough of Brooklyn.

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 3, by John F. Ahearn, Pres. Boro. of Manhattan, for regulating, grading, curbing and flagging 140th St., from Broadway to Riverside Drive.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., March 5, for regulating, grading, setting curbstones, laying crosswalks, flagging the sidewalks of, paving with asphalt on a concrete foundation, various streets and avenues; bids are also asked for building approaches and placing fences in various streets and avenues.

GLOUCESTER CITY, N. J.—Bids are asked until 8 p. m., March 5, by John J. Mannion, City Clk., for grading and filling Chambers, Guant, Bergen, Kathryn, Francis and Essex Sts.

TOMS RIVER, N. J.—Bids are asked by the Board of Chosen Freeholders of Ocean County, at the Court House, Toms River, until March 17, for constructing a gravel road in the townships of Dover and Buck, about 24,663 ft. William Segoine, Point Pleasant, N. J., is Engr.

TRENTON, N. J.—Bids are asked by the Board of Chosen Freeholders of Mercer County, at the Court House, Trenton, until March 10, for the improvement of Elm St., Rosedale and Pennington road, Etna and Perrineville road and Brunswick Pike road. Frank J. Eppele is County Engr.

FARMINGDALE, N. J.—Bids are asked until March 11 by the Board of Freeholders, Freehold, N. J., for constructing the first section of the Farmingdale and Hamilton gravel road, extending from Farmingdale easterly on road leading to Asbury Park, a distance of about three miles, and the Manalapan connecting stone road, a distance of about 1,400 ft. George W. Patterson, Jr., is Clk. Bd.

TITUSVILLE, PA.—Specifications for regulating, grading, curbing and paving portions of May Ave., South Franklin and East Bloss Sts. with vitrified shale or fire clay brick or block, 8,645 sq. yds. pavement in all, are on file at the office of Engineering News, New York. Bids are asked until March 2.

*FREEPORT, PA.—We are officially advised that the following bids were received by H. L. Kiskaddin, Boro. Secy., Freeport Borough, for grading, curbing, paving and sewering of part of Second St., and grading, curbing and paving part of Fifth St., Borough of Freeport. The approximate amount of the various kinds of work is as follows: 4,000 lin. ft. curbing; 6,600 sq. yds. brick paving; 900 ft. 15-in. sewer with catch basins and manholes; 600 cu. yds. excavation; 7,500 cu. yds. filling: J. G. McGuire & Co., New Brighton, Pa., $14,821; Anthony Anstead, Altoona, Pa., $21,694; Duster Contracting Co., Tarentum, Pa., $14,290 (bids incomplete; did not bid in all items); Patsy Christmas, Brownsville, Pa., $16,634; Thomas Cronin Co., 17th and Muriel Sts., Pittsburg, Pa., $15,881; Thomas Sweeney Co., 4096 Cypress St., Pittsburg, Pa., $17,830; Rinehart Brothers, East Liverpool, Ohio, $17,534; Sawders Paving & Construction Co., Pittsburg, Pa., $15,855 (bids incomplete; did not bid on all items); Franklin Construction Co., Franklin, Pa., $40,512; Schaffner, Butler, Pa., $14,005 (bids incomplete; did not bid on all items).

ARLINGTON, VA.—Bids are asked by Maj. M. Gray Zalinsky, Q. M., U. S. A., Washington, D. C., until March 16, for grading at Arlington National Cemetery, Va.

LAURENS, S. C.—Bids are asked by the city for paving public square of Laurens, S. C., with vitrified brick, and curbing sidewalks, paving same in cement, until March 16, the amount of surface to be paved about 9,671 sq. yds.; cement, about 2,991 sq. yds. W. H. Gilkerson is City Clk. and Treas.

MONTGOMERY, ALA.—Bids are asked until March 2 by the City Treasurer for paving sidewalks on Gordon St. with Schillinger pavement or hexagon tile, requiring about 15,700 sq. ft. walk and 2,200 ft. curb.

VICKSBURG, MISS.—Bids are asked until 10 a. m., March 12, by Capt. Arthur Cranston, Q. M., U. S. A., New Orleans, La., for repairing roadway leading to the National Cemetery at Vicksburg, Miss.

PORT HUDSON, LA.—Bids are asked by Capt. Arthur Cranston, Q. M., U. S. A., New Orleans, La., until 10 a. m., March 12, for repairing roadway, bridge and culvert leading to the National Cemetery at Port Hudson, La.

CHATTANOOGA, TENN.—Bids are asked by the Board of Public Works until March 10 for resurfacing with asphalt portions of Market, Sixth and Walnut Sts., approximately 10,344 sq. yds., and 807 sq. yds. brick gutters. H. F. Van Dusen is Chn. Bd.

TOLEDO, OHIO.—Bids are asked until noon, Feb. 28, by the Board Public Service for grading and paving Scott St. Reynolds Voit is Secy. Bd.

CHEVIOT, OHIO.—Bids are asked until March 2 by Charles Craig, Village Clk., for furnishing material, grading, curbing and macadamizing a portion of Carrie Ave. and for grading, curbing, macadamizing and constructing cement sidewalks on a portion of Darwin Ave.

CINCINNATI, OHIO.—The contract for improving a portion of Beechmont Ave. has been awarded by Board Public Service to L. EID CONCRETE STEEL CO., 1206 West Liberty St., Cincinnati, at $94,579. John J. Wenner is Clk. Bd.

TIFFIN, OHIO.—The MODERN CONSTRUCTION CO., Fremont, Ohio, has been awarded the contract for a Kreodone lumber and block pavement on the west half of Washington St. bridge, at $3,200. Other bidders were. F. A. Morcher, Tiffin, $3,212; R. W. Johnson, Tontogany, Ohio, $3,213.

DELAWARE, OHIO.—Bids are asked until March 9 by the Board Public Service for the improvement of East Winter and Lake Sts.

TOLEDO, OHIO.—The following contracts were awarded by the Board Public Service on Feb. 14: For paving Mulberry St. from Sherman to Spring Sts., BOLAN & HOLLAND, at $11,991; for paving Sylvan Ave., from Bancroft to Fitchland Aves., CARRIGAN BROS., at $5,997; Liberty St., from Detroit Ave., to Libbey St., same firm. Frank I. Consaul is Ch. Engr. Bd.

COLUMBUS, OHIO.—Dawson & Holbrook are preparing plans for concrete and cement walks, to lead from all buildings on State Fair grounds and connect various departments, grandstands, etc., for the State Board of Agriculture. T. L. Calvert is Secy. Bd.

NEWARK, OHIO.—We are officially advised that plans have been completed for 19,000 sq. yds. brick paving. Bids will probably be asked in March.

ZANESVILLE, OHIO.—Bids are asked until noon, March 16, by the Board of Public Service for paving and curbing Putnam Ave. J. T. Hahn is Secy. Bd.

NORWALK, OHIO.—GEORGE B. HERRING & SONS, Mansfield, Ohio, were awarded the contract on Feb. 17 for brick pavement on Woodlawn Ave., at $16,073.

MICHIGAN CITY, IND.—Plans and specifications have been prepared for paving with brick and combined curb and gutter, six streets, about 34,000 sq. yds. Harry M. Miles is City Engr.

KENTLAND, IND.—The Commissioners of Newton County will soon ask for bids for the construction of five miles of rock roads in McClelland and Colfax Township. Estimated cost, about $2,250 per mile.

EVANSVILLE, IND.—The Board of Public Works has passed resolutions for the improvement of Emmet St., from Madison Ave. to Second St., and Chandler Ave., from Eighth St. to Elliott St., by grading, curbing, guttering and paving with asphalt for a width of 30 ft.

MOUNT VERNON, IND.—The Commissioners of Posey County have awarded the contract for the construction of four gravel roads in Lynn Township to the MT. VERNON CONSTRUCTION CO., at $28,905, and a contract for the construction of a gravel road in Bethel and Black Townships to C. P. WHITE, of Booneville, Ind., at $11,350.

COVINGTON, IND.—Bids are asked by the Commissioners of Fountain County until 1:30 p. m., March 3, for the construction of two gravel roads, No. 1, 13,204 ft. in length, and road No. 2, 15,789.5 ft. in length. William B. Gray is County Audr.

VERSAILLES, IND.—Bids are asked by the Commissioners of Ripley County until noon, March 3, for the construction of 13,288.40 ft. of macadamized road in Franklin Township, and for the construction of 12,907½ ft. of macadamized road in Adams Township. Nicholas Volz is County Audr.

WINCHESTER, IND.—Bids are asked by the City Council until March 18 for improving various streets.

COLUMBIA CITY, IND.—Bids are asked by the city until March 9 for street paving.

MENOMINEE, MICH.—The City Engineer has been directed to prepare estimates for paving certain portions of Ludington Ave.

RIVER FOREST (Chicago post-office), ILL.—Bids are asked until March 2 by the Board of Local Improvements for improving Thatcher Ave. and Oak Ave., by grading, curbing and paving with asphalt; estimated cost, $16,307. $7,023.

CAIRO, ILL.—We are officially advised that the following bids were received on Feb. 12 by the Board of Local Improvements for paving Washington Ave., from Second to 35th St., with brick: ROY L. WILLIAMS, Kalamazoo, Mich., $123,762 (awarded contract); A. F. Franks, Jacksonville, Ill., $129,092; John Cherry, Jacksonville, Ill., $135,000. W. B. Thistlewood is City Engr.

*PARIS, ILL.—We are officially advised that the following bids were received Feb. 18 by the Board Local Improvements for (a) paving Chestnut St., (b) East Washington St., (c) East Madison St., with brick on a concrete foundation, all bids based on Clinton brick: BAUM CONSTRUCTION CO., Paris, (a) $5,698, (b) $10,716, (c) $15,097; Parrish Bros., Paris, (a) $5,743, (b) $10,935, (c) $15,651; Troy Porter, Paris (a) $6,128, (b) $11,333, (c) $16,550; Couglin & Sizemore, Paris, (a) $6,464, (b) $12,264, (c) $17,356; Mercantile Concrete Bridge & Tile Co., Paris, (a) $6,579, (c) $17,704. (Contracts awarded to the Baum Co.) W. T. Blackburn is City Engr.

MT. CARMEL, ILL.—We are officially advised that Guy W. Courter, C. E., Mt. Carmel, has been engaged by the Board of Local Improvements to prepare plans for five miles of vitrified brick pavement.

LAWRENCEVILLE, ILL.—We are officially advised that Guy W. Courter, C. E., Mt. Carmel, Ill., has completed plans for the construction of about ¾ mile of brick pavement here. Bids will soon be asked.

NEENAH, WIS.—Bids are asked until March 16 by Board Public Works for 9,000 sq. yds. of brick pavement on Wisconsin Ave. H. L. Sweet is City Engr.; Robert Jamison is Chn. Bd.

GREEN BAY, WIS.—We are officially advised that bids will be asked in the latter part of April for paving Broadway, Madison Main and Pleasant, South Monroe and West Mason Sts., with asphalt, 57,017 sq. yds., and for macadamizing Webster Ave. and North Broadway, 8,741 sq. yds. W. W. Reed is City Engr.

ST. PAUL, MINN.—The Park Board has directed estimates to be prepared for improving Reserve boulevard, three miles in length. Preliminary plans were adopted on Feb. 3 by the Board. G. A. Johnson is City Engr.

*BILLINGS, MONT.—All bids for brick and macadam pavement were rejected on Feb. 4 by the city. The Piper Construction Co., Billings, submitted the lowest bid for macadam at $127,822, and R. M. Bardsen, Butte, Mont., the lowest bid for brick at $19,819. Henry Gerharz is City Engr.

ST. CHARLES, MO.—Bids are asked by H. E. Steinmann, City Engr., until 8 p. m., March 9, for paving seven blocks in Second St. with vitrified paving brick, and for granitoid curb on both sides of same street.

ST. LOUIS, MO.—Contracts were awarded on Feb. 14 by the Board of Local Improvements for street improvements as follows: Pine St., from Third to Fourth Sts., UNITED STATES WOOD PRESERVING CO., $3,398; Third St., from Chestnut to Pine Sts., UNITED STATES WOOD PRESERVING CO., $3,015; Florissant Ave., from Hebert to Salisbury Sts., HERMAN CONSTRUCTION CO., $15,023; College Ave., from Von Phul St. to Florissant Ave., JAMES E. PERKINSON, $26,457; College Ave., from Broadway to Von Phul St., HEMAN CONSTRUCTION CO., $5,536; Margaretta Ave., from Newstead to Taylor S'ts., SKRAINKA CONSTRUCTION CO., $10,135; Neosho St., from Broadway to Compton St., WILLIAM R. BUSH CONSTRUCTION CO., $19,211; Itaska St., from Broadway to Virginia St., G. EVERMANN & BRO., $24,254; Michigan Ave., from Delor to Neosho Sts., WILLIAM R. BUSH CONSTRUCTION CO., $11,270; Koeln Ave., from Broadway to Pennsylvania Ave., RUECKING CONSTRUCTION CO., $3,021; Arsenal St., from Spring Ave. to Morgan Ford road, GRANITE BITUMINOUS PAVING CO., $52,372; King's Highway Boulevard, from Old Manchester to Eager road, GRANITE BITUMINOUS PAVING CO., $49,856; Bremen Ave., from Wharf to First S'ts., HEMAN CONSTRUCTION CO., $19,977; Old Manchester Ave., from King's Highway Boulevard to January Ave., FRUIN-BAMBRICK CONSTRUCTION CO., $56,330. Charles M. Talbert is Engr. Bd.

GALVESTON, TEX.—Bids are asked by John M. Murch, County Audr., until noon, March 2, for work on Paris Grove county road.

FORKS, WASH.—Bids are asked by N. H. Hawkins, County Audr., until 2 p. m., March 3, for the construction of the Beaver-Prairie cut-off, a change in the Callam-Forks county road, commencing on the south bank of Beaver Creek and extending south 5,456 ft.

MANUFACTURING PLANTS.

HOLYOKE, MASS.—The Farr Alpaca Co., Holyoke, Mass., is said to be contemplating the erection of a new mill in addition to the works, now determined upon in rebuilding the old weave sheds.

TORRINGTON, CONN.—The Warrenton Woolen Co., Torrington, has decided to erect a mill, to consist of a main building, 300 × 80 ft., two stories high; a dye-house, a wool storehouse and a boiler-house, all of brick mill construction, with concrete floors and roof. The new mill will be furnished throughout with steam heating, automatic sprinklers and electric lights. Charles T. Main, 45 Milk St., Boston, Mass., is Engr. The plant is to be located between the Naugatuck River and the Naugatuck branch of the New York, New Haven & Hartford R. R.

WATERBURY, CONN.—Blake & Johnson, of Waterbury, Conn., are having plans drawn for a brick mill construction factory to cost about $50,000. Griggs & Hunt, Waterbury, are Archs.

TONAWANDA, N. Y.—We are officially advised that the DUROLITHIC CO., Builders' Exchange Bldg., Buffalo, N. Y., has been awarded the contract for constructing reinforced concrete buildings 60 × 170 ft. and 54 × 74 ft., for the National Roofing Co., Tonawanda, N. Y. Colson & Hudson are Archs. Metal windows, skylights, ventilators, fire doors, elevators, steam heating system, etc., will be installed.

LIVINGSTON MANOR, N. Y.—The Livingston Manor Machine Works, Livingston Manor, N. Y., will erect a building, 20 × 30 ft., for general repair work. A specialty will be made of automobile repairs, and in addition a small line of supplies will be carried. W. D. Wakeman is Mgr.

NEWARK, N. J.—Herman Metzger, 240 Market St., Newark, is preparing plans for a 2-story dye house for S. Beyer & Son, 233 Ferry St.

PHILADELPHIA, PA.—A. RAYMOND RAFF, 1635 Thompson St., has secured the contract to erect for the Standard Hosiery Co., at 1318 North Lawrence St., buildings to include a 3-story spinning mill, 147 × 38 ft.; a 2-story picker house, 37 × 40 ft.; a boiler house, 53 × 41 ft.; an engine room, office building and a reservoir to contain 75,000 gallons. Probable cost, $200,000.

M. Ward Easby, Consult. Engr., Crozer Bldg., has completed plans and invited estimates for the erection of a factory for the F. W. Maurer & Sons Co., at Wayne Ave. and Bristol St. It will be three stories high, measuring 90 × 661 ft.

CHARLESTOWN, W. VA.—The Charlestown Ice Plant will be established, with C. L. Robinson and W. R. Hillyard managing office. Capital, $25,000. There will be installed a 20-ton ice-making machine and a cold storage plant for apples will be built later. The Frick Co., of Waynesboro, Pa., is Arch.

PARKERSBURG, W. VA.—The United Woolen Mills Co., Parkersburg, has engaged R. H. Adair, 222 Fifth St., Parkersburg, to prepare plans for remodelling a building for manufacturing purposes.

The Parkersburg Mill Co. has adopted plans for buildings, 80 × 150 and 40 × 200 ft., to replace structures destroyed by fire at a loss of $10,000.

WHEELING, W. VA.—The Wheeling Bread Co. will rebuild its plant, recently burned, at a cost of $50,000. It will have four, floors and basement of 8,500 sq. ft. each. There will be a power plant of 100-HP. capacity. The architect is not yet selected.

MOBILE, ALA.—W. W. Thompson, Secy., of the Mobile Portland Cement Co., writes us that the company has not as yet let contract for the building and will not before April 1 or 15. It proposes putting up a complete cement plant, with a daily capacity of 2,500 bbls. All of the buildings will be of concrete and will cost about $1,000,000. Bids for contract will be received about April 1.

FORT MORGAN (Mobile post-office), ALA.—The contract for installing an ice distilling plant at Fort Morgan has been awarded to the CREAMERY PACKAGE MFG. CO., 184 East Kinzie St., Chicago, Ill., at $7,800.

NEW ORLEANS, LA.—Bids are asked until 11 a. m., March 28, by R. C. Holliday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a saw mill and boat shop building at the Naval Station, New Orleans.

MEMPHIS, TENN.—The Memphis Warehouse Co., Royal Bldg., will erect 30 additional sections to it's system of compresses and warehouses, each section having capacity of 1,000 bales of square cotton. It now has three compresses, 80 sections, with storage capacity of 120,000 bales.

CHATTANOOGA, TENN.—The Price-Evans Foundry Co., Chattanooga, manufacturers of architectural iron works and specialties, contemplates building an addition to its main foundry, 60 × 110 ft. The addition, which is contingent on the closing of a street at the end of the company's property, will be of steel and brick construction, and will necessitate the expenditure of about $4,000.

LOUISVILLE, KY.—Fred Erhart, Arch., Norton Bldg., has prepared plans for a 2-story addition to the bakery building for the Nick Warrisle Baking Co., to cost $10,000.

CINCINNATI, OHIO.—The Fenton Dry Cleaning Co., Thomas T. Fenton, Proprietor, has purchased the lot at the corner of Reading Road and Hickman St., and will erect a $25,000 building on the site.

BLOOMINGTON, ILL.—George H. Miller, Arch., Corn Belt Bank Bldg., Bloomington, has prepared plans for a 2-story addition to the factory of the Portable Elevator Mfg. Co., Burke Reed, Mgr. Cost, $10,000.

CHICAGO, ILL.—Treat & Ahlschuler, Fisher Bldg., are taking figures for a manufacturing plant for the Raymond Lead Co., 59 West Lake St. The plant will cost $200,000.

Plans have been prepared for a 2-story bottling house, 120 × 100 ft., to be erected at 3937 Wallace St., for the Mullen Brewing Co., 40th and Wallace Sts., at a cost of $35,000.

The Cooke Brewing Co., 27th and Johnson Sts., is reported to have had plans prepared for a 3-story bottling house, 80 × 200 ft., to be erected at Cottage Grove Ave. and 27th St., at a cost of about $100,000, to replace structure which was recently destroyed by fire.

MILWAUKEE, WIS.—A. F. Gallun & Sons will commence work in the near future on the additions to their tannery. Several stories will be added to the main building, and this, together with the other proposed improvements, will cost about $30,000.

JANESVILLE, WIS.—The Parker Pen Co., G. S. Parker, Pres., contemplates erecting a 2-story factory building, 50 × 100 ft., this spring or summer. The structure will be built of reinforced concrete, with gravel roof, oak finish, maple floors, plate glass and gas and electric fixtures. Cost, $75,000.

KAUKAUNA, WIS.—The Ontagamie Paper Co. contemplates erecting a 3-story warehouse and finishing department, 53 × 60 ft., this summer. Brick with gravel roof will be material of construction.

CEDAR RAPIDS, IOWA.—The Cedar Rapids Candy Co. will erect a 5-story concrete plant, 60 × 140 ft., at A Ave. and Fourth St.

ST. LOUIS, MO.—Sylvester C. Judge, 1815 Pine St., St. Louis, will erect a 2-story straw and felt hat factory, 300 × 115 ft., of brick and stone construction. Cost, $30,000.

James A. Smith has let general contract to DOEFNER & PLOECKER for constructing a carpenter shop for the Board of Public Improvements.

KANSAS CITY, MO.—Edgar C. Faris, Arch., Kansas City, has prepared plans for a 3-story soap factory building for Fetters Bros., Adams and Wyoming Sts., Kansas City.

PINE BLUFF, ARK.—Plans are now under way for rebuilding the big hardwood mill of the Bluff City Lumber Co. at Pine Bluff, Ark., which was destroyed by fire about a year ago with a loss of $200,000.

PUEBLO, COLO.—The Business Men's Association of Pueblo has made arrangements for the removal of the stove works of the Collins & Burgis Co. from Marengo, Ill. The plant will cost $150,000.

TACOMA, WASH.—We are advised by A. P. Gillies, Mgr. Imperial Bldg. Co., Tacoma, that a steel plant is to be constructed in connection with the construction of the proposed Imperial Building. The plant will be owned by the Pioneer Steel Corporation.

SPOKANE, WASH.—The Directors of the United Copper Co., Jamieson Block, have been authorized to erect a copper matting plant, to cost about $35,000. C. Wolfe is Pres. and Mgr. and W. H. Stowell is Consult. Engr.

PORTLAND, ORE.—L. L. Swift and other officers of Swift & Co., 125 Monroe St., Chicago, Ill., are completing plans for the erection in Portland of a meat packing plant, to cost $3,500,000. The required railroad transportation facilities for the plant will involve an expenditure of $2,000,000 by various railroads.

RIVERSIDE, CAL.—Bids are asked until 2 p. m., March 23, by C. F. Larrabee, Acting Comr. of Indian Affairs, Washington, D. C., for installing an ice and cold storage plant at Riverside School. Harwood Hall, Supt.

BERKELEY, CAL.—The California Corrugated Culvert Co. will establish a plant which, it is estimated, will cost about $10,000. The plant will be built in the Hardwick Tract.

BELLEVILLE, ONT.—H. Corby and F. R. Tingham will build cement and lime works here, at an approximate cost of $7,000,000.

WINNIPEG, MAN.—Victor Horwood, 177 McDermott Ave., East, is preparing plans for a 120 × 60-ft. warehouse, two stories, and 1-story 36 × 62-ft. factory for the Merrick-Anderson Co. to replace their building recently destroyed by fire.

VANCOUVER, B. C.—J. Leckie & Co., boot and shoe manufacturers, have awarded to SMITH & SHERBORNE, a contract for the construction of a factory, warehouse and office block at the corner of Camble and Water Sts. The building, which will be seven stories in height, with a large basement, will cost approximately $75,000. It will be built of stone and brick, and of the slow-burning type, with a sprinkler system installed throughout. The work of excavating for the foundation has been commenced.

NEW WESTMINSTER, B. C.—In the summer the British Columbia Electric Street Ry. Co. will expend approximately $200,000 on car building in its shops here. R. H. Sperling is Gen. Supt., Vancouver, B. C.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Railways.

DITCH.—Frankfort, Ind.—Bids are asked until 2 p. m., Feb. 29, for constructing the Albert Boggs ditch. W. A. Robinson, Drainage Comr.

FENCE REPAIRS.—Brooklyn, N. Y.—Bids are asked by the Department of Parks, New York, until 3 p. m. March 12, for repairs and alterations to and painting of fences around parks and on parkways in the Boroughs of Brooklyn and Queens.

WHARF.—Fort Howard, Md.—WM. MILLER, of Baltimore, has been awarded the contract for making repairs to wharf at Fort Howard, at $10,158.

DITCH.—Ivanhoe, Minn.—Bids are asked until 9 a. m., March 11, by R. H. Sisson, County Audr., for constructing Ditch No. 16. Estimated cost, $5,140.

DITCH.—Brainerd, Minn.—Bids are asked by the County Auditor until 2 p. m., March 18 (adjournment), for constructing Ditch No. 14. Total estimated cost is $9,933.

DUMP SCOWS.—Cincinnati, Ohio.—Bids are asked until 2 p. m., March 11, by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, for reconstructing a dump scow.

BULKHEAD. — Minneapolis, Minn.—Bids are asked until 11 a. m., March 9, by Hugh R. Scott, County Audr., for constructing bulkhead at the Narrows, Lake Minnetonka.

DRAINAGE CANAL.—Yuba City, Cal.—Bids are asked until March 15 by C. E. Williams, Secy. Sutter Drainage District, for excavation of the Sutter drainage main canal.

WHARF.—Fort Jackson, La.—Bids are asked until March 12 by Capt. Arthur Cranston, Q. M., U. S. A., New Orleans, La., for constructing a wharf and causeway at Fort Jackson.

DREDGING.—Oakland, Cal.—Bids are asked until noon, March 12, by Lieut.-Col. John Biddle, Corps Engrs., U. S. A., 1840 Polk St., San Francisco, for dredging in Oakland Harbor.

*DAM.—Wheeling, W. Va.—Bids are asked until 11 a. m., March 27, by Capt. F. C. Boggs, Corps Engrs., U. S. A., for constructing 700 ft. of navigation pass for Dam No. 8, Ohio River.

STREET SIGNS.—Kenosha, Wis.—Bids are asked until Feb. 28 at the office of the Street Assessment Commission for furnishing 850 metal street signs and about 425 sign posts. Robt. H. Moth, City Engr.

*REPAIRING DIKES.—New York, N. Y.—Bids are asked until noon, March 24, by Col. John G. D. Knight, Corps Engrs., U. S. A., Army Bldg., New York, for repairing dikes in Rondout Harbor, N. Y.

*PIER EXTENSION.—Frankfort, Mich.—Bids are asked by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, Mich., until 3 p. m., March 25, for extension and repair of south pier at Frankfort, Mich.

CEMENT.—Detroit, Mich.—The Committee on Sewers has recommended that the contract for supplying 15,000 bbls. of natural cement be awarded to the MILWAUKEE CEMENT CO., of Milwaukee, Wis., at 60 cts. per bbl.

LIME, ETC.—Brooklyn, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., March 4, for furnishing and delivering lime, cement, brick and other building materials to various disposal works, Boro. Brooklyn.

TRAVELING CRANES.—Bremerton, Wash.—Bids are asked until March 10 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for two 10-ton, 3-motor electric traveling cranes. E. B. Rogers, Paymaster-Gen., U. S. N.

BREAKWATER.—Fort Fremont, S. C.—Bids are asked by Lieut. Walter C. Baker, Q. M., U. S. A., until 2:30 p. m., March 17, for furnishing material and extending timber breakwater at end of wharf here and for certain repairs to wharf.

BREAKWATER.—Key West, Fla.—Bids are asked until 3 p. m., March 3, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for construction of a new breakwater wall at the U. S. Marine Hospital, Key West.

TOOLS, JUNK.—Boston, Mass.—Bids are asked until noon, March 7, by Major Edward Burr, Corps Engrs., U. S. A., Boston, for the purchase from the United States of tools, old rope, iron and other junk at Fort Montgomery, Rouse Point, N. Y.

DITCH.—Elbow Lake, Minn.—Date for bids to be received by O. E. Wold, County Audr., for constructing drainage ditch No. 5, has been postponed from Feb. 7 to March 25. Plan and specifications are on file at office of Engineering News, New York. Morgan & Wilson are the Engrs., St. Cloud, Minn.

FENCE, IRON GATES.—New York, N. Y.—Bids are asked by the Department of Parks until 3 p. m., March 5, for furnishing and erecting iron gates and sections of iron fence in playgrounds of Thomas Jefferson, De Witt Clinton, St. Gabriel's, Hamilton Fish and Wm. H. Seward parks, Boro. of Manhattan.

*PIERS.—Baltimore, Md.—Plans and specifications for the construction of Piers 4, 5 and 6 are on file at office of Engineering News, New York. Bids are asked until March 11 by the Harbor Board, Baltimore. Plans may be obtained from the Harbor Board on receipt of $15. Oscar F. Lackey, Harbor Engr. (Advertised last week.)

SWIMMING POOL.—Denver, Colo.—Bids were received Feb. 20, by C. A. McCauley, Ch. Q. M., for constructing a swimming pool at Fort Huachuca, Ariz. Bids received for this work on Jan. 9 were rejected. The latest bids were:, Prindle & Dally, Bisbee, Ariz., $7,266; A. S. Noon, Nogales, Ariz., $7,593; H. W. Kelsey, Nogales, Ariz., $7,721.

BUOY SERVICE.—Buffalo, N. Y.—Bids are asked at the office of the Light-House Inspector, Buffalo, N. Y., until noon, Feb. 28, for maintaining all the buoys in Niagara River at Waverly Shoal, Seneca Shoal and Buffalo breakwater south entrance, Lake Erie, and in the approaches to the harbor of Buffalo, N. Y., for the fiscal year ending June 30, 1909.

DIRIGIBLE BALLOON.—Washington, D. C.—Brigadier-General James Allen, Chief Signal Officer, U. S. A., has awarded the contract for building one dirigible balloon to CAPTAIN THOMAS S. BALDWIN of New York. Eleven proposals were submitted on Feb. 15. Captain Baldwin's offer was to construct the balloon in 180 days at a cost to the government of $6,750.

BARGE CANAL.—Alba... was received by F. C. S... Works, Albany, on Feb. ... the work embraced in Ba... No. 17, left uncomplete... tion of the contract held ... Contract was awarded at ... ANDER MURDOCK, of B... ized prices will be give... Contract Prices.

LAMP BRACKETS.—... were received as follows: ... pervising Architect of the ... ington, D. C., for lamp... United States Custom Ho... Flour City Ornamental Ir... apolis, $8,000; Ornamental ... Akron, Ohio, $4,240; F. ... Wire Works, Chicago. ... Iron Works, Brooklyn, $3,8...

POWDER.—Washington, ... received as follows Feb. 21 ... the Chief of Ordnance, War ... ton, D. C., for furnishing 1... less powder for 8-in. guns, ... 50,000 lbs. for 10-in. guns: ... ternational Smokeless Pow... Co., Parlin, N. J., 67 cts. ... years. E. I. Dupont de ... Co., 90 West St., New Yo...

WALL.—Anniston, Ala.—B... as follows Feb. 20 at the off... vising Architect of the Tre... ton, D. C., for the construc... the post-office building, Ann... gernon Blair, Montgomery ... Aug. 1, 1908; J. F. Lanst & ... Ala., $3,830, 4 months; J. H. ... Co., Anniston, Ala., $3,100 ... C. H. Houser, Anniston, Ala., ... 1, 1908.

DITCH.—Hamilton, Ohio.—Bids were received as follows by the Board of Commissioners of Butler County on Feb. 18 for ditch improvement No. 11 in the city of Hamilton and Fairfield Township: J. E. Brate, County Audr.: Section 1, F. J. Davis, Hamilton, $8,700. Section 2, C. H. Bennett, Hamilton, $9,325. Section 3, Thomas P. Strack, Goodall Bldg., Cincinnati, for brick, $49,460; the Ironton Construction Co., Ironton, Ohio, for concrete, $45,580; J. T. Guillaume, Hamilton, for Parmlee's Patent, $46,800.

INDUSTRIAL RAILWAY.—Vallejo, Cal.—Bids are asked until March 10 by the Navy Department for delivering at Mare Island, Cal., under Schedule 811: one industrial railway as specified below: 1,250 ft. section straight track; two pieces track curve, two units each; two pieces track curve, three units each; four pieces track curve, one unit each; one right hand switch, without block; one left hand switch, without block; three roller bearings, 4-wheel, shop cars, three tons capacity; two roller bearings, 8-wheel, flat cars, five tons capacity.

ORDNANCE SUPPLIES.—Washington, D. C.—Bids were received as follows Feb. 21 at the office of the Chief of Ordnance, War Dept., Washington, D. C., for furnishing 34,450 intrenching tools and 17,080 mattocks: Intrenching tools—Pittsburg Shovel Co., Pittsburg, Pa., 29 cts. per set; Sherman, Brown, Clements Co., New York, 29.9 cts.; Wood Shovel & Tool Co., Piqua, Ohio, 24 cts.; Hubbard & Co., Pittsburg, 29 cts.; Wyoming Shovel Co., Wyoming, Pa., 29 cts. Mattocks—Iron City Tool Works, Pittsburg, 22 cts.; American Axe & Tool Co., Pittsburg, 80 cts.; Motley, Green & Co., 66 Broad St., New York, $4.95 per doz.

*DAMS AND SHORE PROTECTION.—Rock Island, Ill.—Bids were received on Feb. 17 by Maj. C. S. Riche, Corps Engrs., U. S. A., Rock Island, for construction and repair of dams and shore protections (a) between Wisconsin River and Savanna, Ill.; (b) between Rock Island, Ill., and Burlington, Iowa, and (c) between Burlington, Iowa, and Hannibal, Mo. Contracts have been awarded as follows: A. J. WHITNEY, of Rock Island, (a) rock at $1.47 per cu. yd. and brush at 47 cts.; ALBERT KIRSCHMER, of Fountain City, Wis., (b) rock per cu. yd., $1.47, brush at 59 cts.; ALBERT V. FETTER, of Quincy, Ill., (c) rock per cu. yd., $1.50, and brush 55 cts.

*EXCAVATION, ETC.—Nashville, Tenn.—Bids were received Feb. 10 by Maj. Wm. M. Harts, Corps. Engrs., U. S. A., for excavation, riprap and paving at Colbert Shoals Canal, near Riverton, Ala. The bids were as follows: H. C. & C. Hodges Goodwin Institute Bldg., Memphis, Tenn., $148,450; W. J. Oliver, Knoxville, Tenn., $121,359; Dunn & Lallande, Alabama National Bank Bldg., Birmingham, Ala., $123,000 (bid on excavation alone); M. J. Roach, Semmitar Bldg., Memphis, $94,150 (bid on excavation alone); W. A. Shippey & North Alabama Construction Co., Memphis and Riverton, Ala., $153,650; Smith & Leonard, Memphis, $230,850. (Itemized prices will be given next week under Contract Prices.)

DITCH.—Yankton, S. Dak.—Bids were received as follows on Feb. 17 by David M. Finnegan, County Audr., for digging and constructing Clay Creek Ditch, 419,250 cu. yds.: Pollard-Campbell Dredging Co., Omaha, Neb., 8.95 cts.; Foley & Gleason, Lockport, Ill., 9.10 cts.; Horton & Moseley, La Fayette, Ind., 9.24 cts.; West Bend Drainage Co., West Bend, Iowa, 9.07 cts.; Northern Construction Co., Elkhart, Ind., 9.... cts.; C. H. Sternberg, La Fayette, Ind., 9.25 cts.; W. A. Smith & Co., Mobile, Iowa, 9.4 cts.; Jerry Sherwood, Litchfield, Minn., 9.25 cts.; Scott-Depoy & Son, Fox Home, Minn., 9.5 cts.; A. J. Lacy, Miles City, Mont., ... cts. The contract was awarded to the POLLARD-CAMPBELL DREDGING CO., at 8 cts.

TUNNEL.—Salt Lake City, Utah.—Bids were received by the State Board of Land Commissioners at Salt Lake City on Feb. 17 for constructing an open cut 200 ft. long, more or less, and a tunnel 420 ft. long, more or less. The open cut is partly in earth and partly in solid rock. The tunnel is entirely in solid rock. This work is located approximately ten miles south of Marysvale. Thos. C. Callister is Secy. The bids were as follows: James Long, Marysvale, Utah, $6,183;

R. D. Young, Richfield, Utah, $8,078; Nelson & Skougaard, Richfield, Utah, $9,065; J. C. Maguire, 2021 Adams Ave., Ogden, Utah, $12,750; Campbell Bldg. Co., Salt Lake City, $13,135; Frank L. Hines, care N. P. Myton, P. O. Box 25, Salt Lake City, $13,162; R. W. Sevy, Panguitch, Utah, $6,900 (tunnel only); Thurber, Jensen & Callaway, Richfield, Utah. Final consideration of $6,980 (tunnel only). bids has been deferred until regular meeting of Board on March 3.

STEAMER ..., Montreal, Que.—The Grand Trunk Pacific Ry. Co., Montreal, has ordered to operate on the Skeena River ... steamer ... Columbia. The hull is from ... in British ..., Victoria West, B. C.; ALEX. WILSON, JR., Victoria West, B. C.: the machinery from the POLSON IRON WORKS, Limited, Toronto. The length of the boat between perpendicular is to be 136 ft.; beam extreme on bottom, 29 ft.; beam, ... ft.; beam extreme on deck, 30 ft.; depth molded, 5 ft. 4 in. The vessel is to be ready for service next spring.

DRY DOCK.—Brooklyn, N. Y.—Victor H. Metcalf, Secretary of the Navy, Washington, D. C. has decided to award the contract for finishing Dry Dock No. 4 at the Brooklyn Navy Yard to the WILLIAMS ENGINEERING & CONTRACTING CO., 13 Park Row, New York. He has not yet determined which of the two bids submitted by this company to accept. One was to complete the dock, using the old plant left by George Spearin, the former contractor, for $764,000; the other bid to do other work and provide his own equipment at cost to the government of $774,000. The contractors are preparing estimates for a supplementary contract, which provides for making the dry-dock larger than originally planned. Richard Bowlin probably will superintend the work for the contractors.

*DREDGE.—Galveston, Tex.—Bids were received Feb. 14 by Maj. J. C. Sanford, Corps Engrs., U. S. A., for constructing one steel twin-screw suction dredge for Galveston Harbor. Following are the bids, port of delivery and time: Newport News Shipbuilding & Dry Dock Co., 1 Broadway, New York, N. Y., $412,000, Newport News, Va., eleven months; Fore River Shipbuilding Co., Quincy, Mass., $384,500 Quincy, Mass., nine months 15 days; Maryland Steel Co. of Baltimore County, Sparrows Point, Md., $357,500, Sparrows Point, Md., nine months (recommended for acceptance); The William Cramp & Sons Ship & Engine Building Co. Beach and Ball Sts., Philadelphia, Pa., $499,500, Philadelphia, Pa., twelve months; New York Shipbuilding Co., Camden, N. J., $410,000, Camden, N. J., twelve months.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

ASPHALT PAVING.—Seattle, Wash.—Two bids were received on Feb. 1 by the Board of Public Works, for paving Virginia St. with asphalt. The bids in detail were as follows: (A) Independent Asphalt Paving Co., Pioneer Bldg., Seattle; (B) the BARBER ASPHALT PAVING CO., Mutual Life Bldg., Seattle (awarded contract):

	(A)	(B)
Fixed estimate	$1,250.00	$1,250.00
Lump sum, clearing and grubbing	700.00	85.00
1,000 cu. yds. earthwork or sub-grade	.75	.85
120 lin. ft. 8-in. c.-i. pipe, Class "A"	2.10	2.25
300 lin. ft. 3-in. sewer pipe	1.00	.25
1 catch basin, no inlet	45.00	70.00
231 lin. ft granite curbing, curved	2.00	2.25
1,577 lin. ft. concrete curbing	.50	.47
1,047 sq. yds. concrete sidewalks	1.30	1.20
100 lin. ft 3-in. tile drain	.25	.15
4,495 sq. yds. asphalt paving	2.10	2.25
300 sq. yds. brick gutters	3.10	3.25
444 lin. ft. wooden stops	.50	.55
3 monument cases	10.00	10.00
1 new inlet	20.00	25.00
1 catch basin to be moved	30.00	35.00
4 catch basins to be adjusted	5.00	3.50
133 sq. yds. alley crossings, brick	3.10	3.05
5 cu. yds. gravel base	2.50	1.60
Totals	$17,500	$17,493

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

TRENCH BRACES.—Richmond, Va.—I. J. Smith & Co. write us that they desire to communicate with manufacturers of sewer trench extension braces.

CONCRETE MIXERS.—Reading Pa.—We are advised by the H. E. Ahrens Co., 622 Court St., Reading, Pa., that they desire catalogs and printed matter relative to concrete mixing machinery.

CONTRACTOR'S MACHINERY.—Chicago, Ill.—Ernest McCullough, 512 Burling St., Chicago, Ill., states that he desires catalogs, data books and sheets concerning contractor's tools and machinery.

HYDRAULIC RAMS.—New Haven, Conn.—We are in receipt of a letter from A. W. Sperry, C. E., New Haven, Conn., stating that he wishes to learn the names of manufacturers of hydraulic rams.

REINFORCING MATERIAL.—New York, N. Y.—We are in receipt of a letter from Albert Bernstine, 42 Broadway, New York City, stating that he desires catalogs and information relative to expanded metal wire fabrics and various other forms of reinforcing material.

CIVIL SERVICE EXAMINATIONS.

MAGAZINE ATTENDANT.—California.—The U. S. Civil Service Commission announces an examination on March 25 to secure eligibles to fill a vacancy in the position of magazine attendant, $2.56 a day, in the Naval Magazine, Navy Yard, Mare Island, Cal., and vacancies requiring similar qualifications as they may occur. Age limit, 20 to 40 years. Application form, 1093.

ASSISTANT ENGINEERS.—India.—(Indian Public Works Department.)—The Secretary of State for India in Council, London, this summer, will make about 30 appointments of assistant engineer in the permanent establishment of the Indian Public Works Department. Candidates must have attained the age of 21, and not attained the age of 24 years on July 1, 1908. A printed form of application, together with information regarding the conditions of the appointments, and certain requirements laid down as to education and experience in engineering, may be obtained from the Secretary, Public Dept., Indian Office, Whitehall, London, S. W. The form of application is to be returned so as to reach him not later than May 1, 1908. A. Godley, Under Secy. of State.

SUPERINTENDENT CONSTRUCTION.—New York, N. Y.—The U. S. Civil Service Commission announces an examination on March 25 to secure eligibles to fill a vacancy in the position of draftsman, qualified in engineering construction and supervision of plumbing installation, at $6 a day when actually employed. Immigration Service, Ellis Island, N. Y., and vacancies requiring similar qualifications as they may occur in any branch of the service. The Department states that the appointee to the specific position mentioned will be employed for a period of six months. Applicants for this position should have had practical experience in steel and other engineering work on buildings and also in plumbing work.

ASSISTANT CIVIL ENGINEERS.—The following persons passed the recent State Civil Service Examination for the position of assistant civil engineer, at a salary of $5-$6 a day:

Lovell H. Parken, 60 West 104th St., New York City	90.24
Charles W. Costello, 119 East Embargo St., Rome, N. Y.	81.99
W. A. Kemper, Luzerne, N. Y.	80.82
William J. Durkan, Barge Canal Office, Rome, N. Y.	80.67
George W. Blodgett, 682 Eastern Parkway, Brooklyn, N. Y.	79.63
Stephen B. McDonald, 38 Mitchell St., Norwich, N. Y.	77.87
George M. Briggs, 51 Grand Ave., Poughkeepsie, N. Y.	76.3
Joel M. Howard, 106 East First St., Oswego, N. Y.	76.07
Clinton A. Curtis, Notre Dame St., Fort Edward, N. Y.	75.38
Lyster G. Bayley, 610 Fourth St., Troy, N. Y.	75.05
Edward M. Ellis, Weighlock Building, Syracuse, N. Y.	75.00
Samuel M. Purdy, 1328 North 56th St., Philadelphia, Pa.	89.48
Frank H. Brundage, Coast & Geodetic Survey, Irvington, Va.	81.31
Clarence I. Peckham, 30 Gurney St., East Providence, R. I.	78.46

ENGINEERING DRAFTSMEN.—Albany, N. Y.—Thirty-four persons passed the recent examination held by the State Civil Service Commission for engineering draftsmen, salary $4-$5 a day. The first 15 on the list are:

Edgar W. Maloney, Canton, N. Y.	95.76
J. V. Hogan, 125 Highland Place, Ithaca, N. Y.	92.07
Harold N. Metzger, 351 Pearl St., Buffalo, N. Y.	90.54
Ward J. Hager, 806 Bellevue Ave., Syracuse, N. Y.	89.5
R. H. Warrin, 194 Main St., Cooperstown, N. Y.	89.08
Schuyler H. DePuy, 114 Henry St., Syracuse, N. Y.	88.35
Cornelius E. Elmendorf, 28 Union St., Schenectady, N. Y.	87.47
James N. Keenan, 129 Hazen St., Ithaca, N. Y.	85.06
George F. Bond, Jr., 143 President St., Troy, N. Y.	84.96
Herbert B. Hoyt, 103 McGraw Place, Ithaca, N. Y.	84.82
Harry M. Nelson, 303 Eddy St., Ithaca, N. Y.	84.4
Emory E. Brandow, 17 Lancaster St., Albany, N. Y.	83.7
Albert W. Andrews, Barge Canal Office, Oswego, N. Y.	82.8
J. H. McCormic, Jr., 297 Madison Ave., Albany, N. Y.	82.52
Harry H. Tripp, 112 Hudson St., Ithaca, N. Y.	81.61

PUBLIC DOCUMENT CATALOGER.—Washington, D. C.—An examination will be held on March 25 by the U. S. Civil Service Commission to secure eligibles to fill a vacancy in the position of public document cataloger, Government Printing Office, at $900 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years or over. Application Form 1312.

TESTING ENGINEER.—Washington, D. C.—On March 18 the U. S. Civil Service Commission will hold an examination to secure eligibles to fill two or more vacancies in the position of engineer in timber tests, $1,000 a year each, in the Forest Service, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur. Age limit, 20 years. Application form, 1312.

ELECTRICAL ENGINEER.—Albany, N. Y.—As a result of the recent examination held by the New York State Civil Service Commission, the following persons are eligible for appointment as electrical engineer in the Public Service Commission, at a salary of $1,500-$1,800:

Gordon M. Evans, 418 W. 160th St., New York City	95.56
Isadore Tonz, 77 East 115th St., New York City	92.22
William C. Whiston, 625 West 135th St., New York City	88.67
Thomas A. Rhodes, Jr., 17 Minerva Place, Bedford Park, New York City	88.65
John G. Webb, 32 Lafayette St., Schenectady, N. Y.	85.5
George W. Kuhn, 471 Willoughby Ave., Brooklyn, N. Y.	83.66
Harry E. Carver, 153 North 15th St., East Orange, N. J.	83.6
William J. Coffin, 117 Lake Ave., South Albany, N. Y.	83.4
M. Curry Turpin, 15 Williams St., Auburn, N. Y.	83.01
William W. Lyon, Jr., 157 West 92d St., New York City	81.66
Andrew J. Haire, Jr., 424 Halsey St., Brooklyn, N. Y.	81.52
Herbert A. Temple, Groton, N. Y.	81.15
Arthur A. Eakins, Governor's Island, New York City	79.96
Robert H. Mitchell, 10 Bay 28th St., Bath Beach, New York	79.15
Nelson P. Weier, 157 West 224 St., New York	77.17
Oscar E. Thomas, Jr., 602 Union St., Schenectady, N. Y.	76.69
Samuel Goldberg, 136 Cook St., Brooklyn, N. Y.	75.01

INDUSTRIAL NOTES.

THE INTERNATIONAL STEAM PUMP CO., New York, has removed its general offices to 115 Broadway, New York City. It will maintain a repair shop at 44 Trinity Place, New York.

THE TRI-CITY RAILWAY & LIGHT CO. reports considerable enlargement of the gas service in Rock Island, Moline and Davenport during the past year. Under the operating and engineering management of J. G. White & Co., 37 miles of new 6-in., 8-in. and 12-in. mains have been laid. The completion of a new 500,000-ft. gas holder at Moline, which is part of the system, has been recently noted in these columns. The total population of the territory served is only about 75,000, so the gas business campaign conducted by the managers has been responded to by a large proportion of the inhabitants.

THE JACOBSON MACHINE MFG. CO., of Warren, Pa., has recently established a Southern office at Atlanta, Ga., at which point a full stock of lime, of gas and gasoline engines will be carried; also a stock of repair parts. This business will be in charge of Mr. C. R. Morrison, who has for some time been traveling representative of this concern in the Southern States. The office and store room is located at 676 Marietta St., Atlanta, Ga. This company is one of the concerns engaged in the manufacturing of gas and gasoline engines, that has not experienced any slack-up in the orders received, nor volume of business done. The concern reports that it has laid off no men, nor reduced wages, since the late panic started. The plant is running full capacity, with orders booked at present sufficient to run full capacity for nearly two months. The Southern trade of this concern has been built up at a very rapid rate during the past year.

THE PORTLAND IRON & STEEL CO., Board of Trade Bldg., Boston, has established at its mills in Portland, Me., a department for the manufacture of steel bars for concrete reinforcing, and is prepared to roll plain bars of all sizes and shapes, as well as square twisted bars. At their headquarters in Boston the company maintains a concrete engineering department, and is prepared to furnish plans for concrete buildings, or to consult with prospective builders of concrete structures. The location of the mill at Portland makes it possible to deliver reinforcing steel to eastern points in very short time. The company will carry a large stock of bars at their mill, and will therefore be able to make shipments at once on receipt of orders. Eastern contractors will now be able to procure their material from the Portland mill, and avoid the damage and expense due to delays.

THE POWER SPECIALTY CO., 111 Broadway, New York City, manufacturers of the Foster Patent Steam Superheater, has secured among recent contracts the following, covering the installation of this superheater in the boilers indicated: Home Electric Light & Steam Heating Co., Tyrone, Pa., 840 H.P. in Heine boilers; Torresdale Filtration Plant, Philadelphia (2d order), 900 H.P. in Heine boilers; Western Clock Manufacturing Company, La Salle, Ill. (2d order), 300 HP. in return tubular boilers; Bernheimer & Schwartz Brewing Company, New York City, 1,900 H.P. in Heine boilers; Garden City Company, Garden City, L. I., 200 H.P. in return tubular boilers; National Sugar Refining Company, Yonkers, N. Y., 1,134 H.P. in B. & W. boilers. It has also sold Foster Superheaters of the independently fired type to: New Jersey Zinc Company, University of West Virginia, Abendroth & Root Manufacturing Company, Seacoast Canning Company. This latter company has within the past year equipped seven of its plants with Foster Superheaters the same being installed in return tubular type of boilers.

TRADE PUBLICATIONS.

ELECTRIC LIFTING MAGNETS.—Cutler-Hammer Clutch Co., Milwaukee, Wis. Paper; 3½ × 5 ins.; pp. 30; illustrated.

These pages are a reprint of an article in "Cassier's Magazine," Oct., 1907.

GRAPHITE MOTOR BRUSHES.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 3¼ × 6 ins.; pp. 12; illustrated.

This booklet contains a general discussion of the use of graphite brushes on direct-current motors.

GAS ENGINES.—Weber Gas Engine Co., Kansas City, Mo. Brochure 35. Paper; 4½ × 8½ ins.; pp. 16; illustrated.

The design of this concern's gas engine and suction gas producer is described in very general terms herein.

STEAM TURBINES.—The Terry Steam Turbine Co., Hartford, Conn. Paper; 6 × 9 ins.; pp. 12.

In these few pages some details of construction are shown as worked out by this company during three years' practice.

TRACTION ENGINES.—The Avery Co., Peoria, Ill. Paper; 11 × 8 ins.; pp. 64; illustrated.

In this catalog there is shown an extensive line of traction engines, steam plows and ranch farming machinery. The various applications are illustrated.

BOILER FEED-WATER HEATERS.—Harrison Safety Boiler Works, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 16; illustrated.

Under the title "What Scale Does to Boilers" there is gathered much general information about the causes and results of boiler scale and how it may be avoided.

PORTABLE HEATERS.—Rockwell Engineering Co., 26 Cortlandt St., New York City. Paper; 6 × 9 ins.; pp. 4.

This company has developed a line of what may be called huge blow torches for heating work which it is inconvenient to remove to a furnace. This leaflet briefly shows their application.

ELECTRIC LIFTING MAGNETS.—The Electric Controller and Supply Co., Cleveland, Ohio. Paper; 8 × 10½ ins.; pp. 32; illustrated.

Some twenty different uses to which electric lifting magnets can be put around different manufacturing plants are shown in this artistic publication.

CENTRIFUGAL PUMPS.—Kingsford Foundry and Machine Works, Oswego, N. Y.; 1908 catalog. Paper; 9 × 6 ins.; pp. 48; illustrated.

A full line of centrifugal pumping machinery for all sorts of uses is described. In addition there are a few pages of useful information on the power required and capacity developed.

ELECTRIC PYROMETERS.—Wm. H. Bristol, 45 Vesey St., New York City. Catalog 20. Paper; 9 × 12 ins.; pp. 16; illustrated.

Recording and indicating pyrometer outfits for blast furnaces are described and illustrated. Full-sized reproductions are shown of the new smoked-chart records.

VALVES, GAGES AND STEAM SPECIALTIES.—The D. T. Williams Valve Co., 521 Hunt St., Cincinnati, O. Cloth; 5 × 7 ins.; pp. 164; illustrated.

This is an illustrated catalog and price list of a variety of brass valves, cocks, gages, lubricators, etc. The specialties include expansion joints, separators, steam traps and valves for special purposes.

GAS LIGHTING.—Welsbach Co., Gloucester, N. J. Bulletin 12. Paper; 7½ × 9 ins.; pp. 19; illustrated.

This pamphlet is virtually a compendium of incandescent gas lighting with inverted burners. Such subjects are considered as the history of their development, present types and their construction, uses, comparisons with other illuminants, etc.

INDUSTRIAL TROLLEY TRACKS.—The Coburn Trolley Track Mfg. Co., Holyoke, Mass. "Giant Talks." Paper; 6 × 9 ins.; pp. 12; illustrated.

"Giant Talks" is the title of a house organ which contains matter on new installations of trolley track carriers, automatic fire doors and shutters, etc., with a few interpolated humorous yarns which are either really new or very ancient ones so rehabilitated that they are not immediately recognized.

CONSTRUCTION WORKS.—Geo. W. Jackson, Inc., 169 W. Jackson Boulevard, Chicago. Paper; 10½ × 4½ ins.; pp. 24; illustrated.

This illustrated pamphlet shows views of some of the contract works which this firm has under way. They include steel bridges, tunnels (in rock and in clay with steel lagging), shafts (with steel sheet piling), etc. Other views show the firm's bridge and steel shops, office building, etc., and there are lists of works completed and under construction.

REINFORCED CONCRETE.—Turnbull Construction Co., Philadelphia, Pa. V. 2; 8¾ × 7 ins.; pp. 32; illustrated.

This pamphlet contains descriptions of the various buildings recently erected by the Turnbull Company.

CAST-IRON CULVERT.—The Isham-Miller Co., Inc., Butternut, Mich. 3½ × 6¼ ins.; pp. 24; illustrated.

The booklet describes the features of a cast-iron culvert built of separate pieces to be put together at the place where it is to be used.

PULVERIZER MILL.—Lehigh Car Wheel & Axle Works, Fullerton, Pa. 9 × 12 ins.; pp. 44; illustrated.

This catalog contains a detailed description of the various types of Fuller-Lehigh pulverizer mills to be used chiefly in cement plants.

SOLAR EPHEMERIS.—Keuffel & Esser Co., Hoboken, N. J. 3 × 6 ins.; pp. 44; illustrated.

This is a remarkably compact and useful little pocket book giving daily solar data for the year 1908, together with methods of astronomical observation.

CRUSHERS AND PULVERIZERS.—The Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. 9¼ × 13 ins.; pp. 14; illustrated.

The present catalog is concerned chiefly with description of crushing and pulverizing plants to be used in cement mills.

CLAMP FOR CONCRETE FORMS.—Charles Dietrichs, 15 Kaufman Ave., Little Ferry, N. J. 3½ × 6¼ ins.; double folder; illustrated.

Mr. Dietrichs has invented a very ingenious clamp and tie rod for holding wall forms in concrete work. It is described in this folder.

CEMENT-MAKING MACHINERY.—Power & Mining Machinery Co., Milwaukee, Wis. Catalog No. 7. 6 × 9 ins.; pp. 86; illustrated.

This catalog contains a complete line of machinery for the production of Portland cement by either the wet or dry process. It presents a fine appearance typographically.

CONTRACTORS' MACHINERY. — Parker Hoist & Machine Co., Chicago, Ill. Catalog No. 20; 5 × 7 ins.; pp. 71; illustrated.

This company makes electric and gasoline hoists, all sorts of derricks, elevators, blocks, winches, hooks and grabs, dollies, skips and other contractors' machinery, all of which are detailed in this catalog.

STEEL SHEET PILING.—Carnegie Steel Co., Pittsburg, Pa. 5 × 7½ ins.; pp. 15; illustrated.

The Carnegie Steel Co. makes and sells two forms of steel sheet piling—the Friestedt Interlocking Channel Bar Piling and the United States Steel Sheet Piling. Complete descriptions of the two are given in this booklet.

SOLAR EPHEMERIS.—Bausch, Lomb, Saegmuller Co., Rochester, N. Y. 3 × 6 ins.; pp. 28; illustrated.

The title of this convenient little pocketbook is "Handbook for Engineers, Containing Also Directions for Use of Solar Attachment and Solar Ephemeris." It is a valuable addition to the field engineeer's equipment.

ELEVATING AND CONVEYING MACHINERY.—Vulcan Iron Works, Wilkes-Barre, Pa. 6 × 9 ins.; pp. 54; illustrated.

The various sorts of belt conveyor, chain elevators, swinging conveyors and other transporting machinery, which the Vulcan Iron Works are now making are fully treated in this book, as well as other kinds of mixing and milling machinery.

CRUSHING AND ROAD BUILDING MACHINERY.—American Road Machine Co., Kennett Square, Pa. Selling agents, The Good Roads Machinery Co., Kennett Square, Pa. 31st annual catalog; 7 × 9½ ins.; pp. 60; illustrated.

All of the many and various kinds of machines used in crushing stone and cement products and in building roads are herein illustrated.

REINFORCED-CONCRETE COAL POCKETS.—Adolph Suck, Hyde Park, Mass. 5½ × 8¾ ins.; pp. 11; illustrated.

Mr. Suck has devoted many years to the design and construction of coal pockets and has lately turned his attention to the use of concrete in this direction. The present booklet describes some of the successful constructions he has so far executed.

WIRE ROPE.—A. Leschen & Sons Rope Co., 920-932 North 1st St., St. Louis, Mo. Paper; 8 × 10 ins.; pp. 88; illustrated.

"Half a Century of Rope Making" is the title to a very pretentious catalog. There is some information given on wire rope in general, on the kinds made by this concern and on its applications to aerial tramways, rope haulage systems, on construction work, logging, quarrying, suspension bridges, power transmission, etc.

EXPLOSIVES.—The Aetna Powder Co., 143 Dearborn St., Chicago, Ill. 5½ × 7½ ins.; pp. 66; illustrated.

This company is the manufacturer of many kinds of explosives and explosive machinery and appliances, all of which are illustrated and described in this catalog. In addition the principles of blasting are exceedingly well treated; better, in fact, than in any text-book with which we are familiar.

PAINTS.—The Arlington Manufacturing Co., Canton, Ohio. 4 × 9 ins.; pp. 20; illustrated.

Under the title "Arlington Technical Paints for All Purposes," the pamphlet gives a list of paints that the company is making for railroad companies, structural builders, contractors, manufacturers and industrial plants, together with a description of the properties and virtues of each kind.

FIREPROOF PARTITION.—Fireproof Partition Co., 1 Madison Ave., New York. 3¼ × 6 ins.; pp. 12; illustrated.

"Scaglioline" is a new fireproof block made by this company of plaster of Paris, certain chemicals and the aggregates of well burnt cinders. It is made in sizes 18 × 24 ins. and 2 to 4 ins. in thickness, the weight of a 3-in. block being 12 lbs. per sq. ft. It is claimed to be extremely fire-resisting.

REINFORCED CONCRETE.—C. A. P. Turner, Phoenix Bldg., Minneapolis, Minn. Bulletin 10. 9¼ × 6 ins.; pp. 48; illustrated.

With a preliminary defense of reinforced concrete as a building material the major portion of this catalog contains plates illustrating various bridges and buildings that have been erected, mostly in the northwest, under the system of construction devised by Mr. Turner.

REINFORCED-CONCRETE STADIUM. — Consolidated Engineering & Construction Co., 1 Madison Ave., N. Y. 6 × 9 ins.; pp. 40.

The new stadium for athletic games recently finished at Syracuse University, Syracuse, N. Y., is one of the finest specimens of reinforced-concrete work in the country, as well as the largest enclosed athletic field in existence. The details of its design and construction, both of which were under the company publishing this pamphlet, are very clearly outlined here.

CONCRETE MACHINERY.—Century Cement Machine Co., Rochester, N. Y. 1908 catalog. 8 × 10 ins.; pp. 70; illustrated.

There are herein illustrated the latest types of concrete block machines and mixers manufactured under the trade name of either "Hercules" or "Century." The half-tones illustrating some new buildings erected with concrete blocks show that when plain faces are used, a pleasing effect can be reached. The numerous rock-face molds described, however, make plain that the company has not yet abandoned those decidedly inartistic forms, the continued use of which must surely ruin the concrete block industry.

CONCRETE REINFORCEMENT.—The Gabriel Concrete Reinforcement Co., 1210 Penobscot Building, Detroit, Mich. Paper; 9 × 6¾ ins.; pp. 118; illustrated.

About half of this pamphlet is devoted to tables for use in designing steel reinforcement with the Gabriel trussed-bar system. There is also a discussion on the design of concrete beams, and a specification for reinforced-concrete. The remainder of the pamphlet contains half-tone engravings of structures in which the Gabriel system of reinforcement has been used.

ELECTRIC POWER APPARATUS.—Crocker-Wheeler Co., Ampere, N. J. Bulletins 91, 92, 93, 94. Paper; 7½ x 10 ins.; pp. 8, 8, 8 and 16 respectively; illustrated.

Bulletin 91 shows the dimensions and equipment of switchboard panels for induction motor installations. Bulletin 92 similarly treats switchboard apparatus designed for the control of one or two generators and a few feeder circuits in small installations. In Bulletin 93 the design and construction is shown of a line of direct current generators of 25 to 150 KW. for coupling to small engines. Bulletin 94 gives the dimensions and equipment of switchboards for three-phase alternating current systems.

For other Proposal Advertisements see pages 47, 48, 49, 50, 52, of Advertisements and Construction News page 68.

FILTERS AND SEDIMENTATION BASIN.

BOARD OF WATER COMMISSIONERS.
Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of the City of Springfield, Mass., until two o'clock, Wednesday, March 25, 1908, for the construction of a sedimentation basin, six covered masonry filters, buildings and appurtenances, as included under Contract No. 2, Little River Water Supply.

Each bid must be accompanied by a certified check drawn upon a State or National Bank for $6,000. A bond of $50,000 will be required to be executed by the party to whom the contract is awarded.

Booklets containing information for bidders, form of proposal, specifications, contract, bond and reproduction of the plans, may be obtained at the office of E. E. Lochridge, Chief Engineer, Springfield, Mass., and at the office of Hazen & Whipple, Consulting Engineers, 220 Broadway, New York City.

The Board reserves the right to reject any or all bids, or to accept any bid should they deem it for the interest of the City so to do.

E. E. STONE,
C. H. BENNETT,
W. E. SANDERSON,
Board of Water Commissioners.
E. E. LOCHRIDGE,
Chief Engineer.

February 24, 1908.

Specifications are on file at the office of Engineering News, New York.

PAVING.

Office of the Board of Public Works,
Saginaw, Michigan, Feb. 27, 1908.

Sealed proposals will be received at this office until Thursday, March 12, 1908, at 4.30 o'clock p. m., for paving portions of twenty-one streets, estimated at 115,000 square yards, with the necessary curbing, grading, excavating and drainage, as required by the specifications.

Proposals for said work will be made on blanks furnished at this office, and in accordance with the general specifications on file therefor.

Contractors may bid upon any one or all of the streets for the various kinds of surface materials admissible in the general specifications, viz.:

Sheet asphalt on concrete foundation.
Bitulithic on concrete foundation.
Brick on concrete foundation.
Creosoted wood block on concrete foundation.
Concrete macadam.

Each bidder will be required to deposit with his proposal a certified check on some bank in the City of Saginaw, or a New York draft, payable to the City Treasurer of Saginaw, as a guarantee that a contract will be entered into within ten days after an award is made. The amount of deposit required with each proposal, and any further information required by contractors will be furnished by R. W. Roberts, City Engineer.

Terms of payment and security for faithful performance of contracts and guarantee will be provided for in the contract.

The Board reserves the right to reject any and all bids.

By order of Board of Public Works,
DANIEL F. LA BAR, President.
DAVID C. BELL, Clerk.

HEATING.

Erie, Pa.

The Board of Education of Erie, Pa., will receive sealed bids, accompanied by plans and specifications, up to April 1, 1908, at 3 o'clock P. M., for installing a system of heating and ventilating in the Erie High School building; all in accordance with specifications to be had on application to

W. J. FLYNN,
Secretary.

BRIDGE.

Benton Harbor, Mich.

Sealed proposals will be received until Thursday, March 19, 1908, at 2 o'clock P. M., by the Joint Bridge Committee of the cities of St. Joseph and Benton Harbor, Michigan, for the construction of a Steel Bridge over the St. Joseph River, consisting of a swing or bascule channel and two approach spans and concrete substructure for same.

Total length of bridge, 312 ft. Roadway, 32 ft., paved with creosoted wooden blocks, and two 7-ft. sidewalks.

General plans and specifications will be on file after March 5, 1908, at the Chicago and New York offices of Engineering News, at the office of the City Clerk of St. Joseph, and at the offices of City Clerk and J. W. Pearl, Engineer, Benton Harbor, Mich., or copies will be forwarded on deposit of $5.00, which will be refunded upon receipt of a bona fide bid.

Proposals must be upon the blanks furnished by the Committee and must be accompanied with a certified check, bond or bank draft for 2 per cent. of the amount of bid, as a guarantee that the bidder, if awarded contract will enter into contract and furnish satisfactory bonds to perform same.

JOINT BRIDGE COMMITTEE,
By J. W. PEARL, Engineer.

PAVING.

Huntington, W. Va.

Sealed proposals will be received by the Common Council of the City of Huntington, West Virginia, until 12 o'clock noon, Eastern Standard time, March 16th, 1908, at the City Clerk's office, for the grading, curbing and paving with vitrified brick certain streets and alleys, as shown by plans and specifications on file in the City Engineer's office.

Approximately 84,000 sq. yds. paving.
36,000 lin. ft. curbing.

Certified check for $500.00 payable to the City Treasurer, must accompany each bid. The Council reserves the right to reject any or all bids.

(Signed) JOHN COON,
Chairman Street Committee.
A. B. MAUPIN,
City Engineer.

PAVING.

Ashland, Ky.

Sealed proposals will be asked for, to be opened on March 23d, 1908, Ashland, Ky., for 12,500 sq. yds. of Vitrified Brick or Bitulithic Pavement, also 17,000 sq. yds. of Vitrified Brick Pavement, and 19,000 lin. ft. of Concrete Curb and Gutter. For specifications, etc., apply to

JOS. W. BOSLEY,
City Engineer.

Situations Wanted

INSPECTOR would be glad to hear from any supervising architect or owner who desires services of an inspector who can get good results and handle work in a businesslike and intelligent manner. Am an engineer, single, temperate, 34 years old. Will go anywhere in U. S. Address "D. B. 9," Engineering News, New York. 9-1t

PRACTICAL ENGINEER, 34 years old, technical education and 12 years' experience on various construction work; concrete in all forms; wants position as field superintendent. Can handle men to advantage; am single and temperate and free to give full time and attention to work in hand. Will go anywhere in U. S. Address "C. B. 9," Engineering News, New York. 9-1t

ENGINEER, three years' experience in reservoir, dam and pipe lines construction, also two years on heavy railroad construction, including tunnels. Good knowledge of concrete. Address "S. 7," Engineering News, New York. 9-3t

ERNEST McCULLOUGH, contractor's engineer and superintendent, 512 Burling St., Chicago, Ill., is open for engagement, designer and constructor; specialties: reinforced concrete, municipal improvements. 9-1t

COST ANALYSIS ENGINEER would like a general foremanship with contracting concern; 12 years in construction work, but wants to handle men and apply system of cost data. No extra cost for applying system either in time or money, and will rely on results for advancement. Am 34 years old, single, temperate; will go anywhere. Address "B. B. 9," Engineering News, New York. 9-1t

Situations Open

MAN with expert practical knowledge in operating quarry for crushed stone product. One with small capital to invest in the business preferred. Address "A. 8," Engineering News, New York. 9-tf

FOR SALE

FOR SALE.

1—Marion Imp. "A" Shovel, thorough working order.
1—Standard Gage Flat Car, 50,000 lbs. capacity.
12—3-yd. Western, two way Dump Cars, excellent.
1—No. 5 Champion Crusher Plant, complete, has had only four months' work.
1,867 ft. 5-16" riveted steel pipe, 33" inside diam.

Address ARTHUR L. SHREVE & CO., P. O. Box No. 89, Bryn Mawr, Pa. 9-1t

FOR SALE.

Franklin Blueprint Machine

Almost new. Price very reasonable. Address "G. B. 9," c/o Engineering News, New York. 9-1t

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help you.